TIBCO ActiveSpaces® Transactions 2.4.1 Release Notes

Welcome to TIBCO ActiveSpaces® Transactions

ActiveSpaces® Transactions is an in-memory transactional application server that provides scalable high-performance transaction processing with durable object management and replication. ActiveSpaces® Transactions allows organizations to develop highly available, distributed, transactional applications using a standard Java programming model.

TIBCO ActiveSpaces® Transactions provides these capabilities:

Transactions - high performance, distributed All-or-None ACID work.

In-Memory Durable Object Store - ultra low-latency transactional persistence.

Transactional High Availability - transparent memory-to-memory replication with instant fail-over and fail-back.

Geographic Redundancy - Replicate transactions across a WAN with split brain avoidance and reconciliation

Distributed Computing - location transparent objects and method invocation allowing transparent horizontal scaling.

Data Grid - secondary object storage, adhoc queries and notification of transactional data changes.

Where to Find Information

See the Quick Start Guide in the TIBCO ActiveSpaces® Transactions SDK for quickly getting TIBCO ActiveSpaces® Transactions up and running and configured with your IDE of choice.

The following information is also shipped in the SDK:

Installation Guide - Installation instructions

Architect's Guide - Architectural details

Java Developer's Guide - Programmer documentation

Administrators's Guide - Administration documentation

Performance Tuning Guide - Application performance tuning documentation

System Sizing Guide - Sizing machine resources for TIBCO ActiveSpaces® Transactions applications

API reference - javadoc for all APIs

Code snippets - source code for the programming snippets in the Developer's Guide

Examples - source code examples of integrating TIBCO ActiveSpaces® Transactions with common Java technologies, application templates, and channels.

We encourage you to join the TIBCO ActiveSpaces® Transactions development community at DevZone

We look forward to hearing your feedback to help us improve TIBCO ActiveSpaces® Transactions to meet your application needs.

Product Compatibility

The TIBCO ActiveSpaces® Transactions Data Grid feature is compatible with TIBCO ActiveSpaces® Enterprise Edition 2.1.2 Hot Fix 14.

Supported Platforms

TIBCO ActiveSpaces® Transactions is supported on

Red Hat Enterprise Linux Server versions 5.8 to 6.5 on 64-bit x86 (x86_64) processors.

Oracle Solaris 10 1/13 in 64 bit mode on SPARC V9 architecture on both Sun and Fujitsu hardware.

Red Hat Platform Requirements

The compat-expat1 (Red Hat 6 only), pstack, gdb, and sysstat packages must be installed when running on Red Hat. The rpm package manager can be used to query and verify that these packages are installed.

rpm -q compat-expat1 - compat-expat1-1.95.8-8.el6.x86_64

rpm -q pstack - pstack-1.2-7.2.2

rpm -q gdb - gdb-7.0.1-42.el5

rpm -q sysstat - sysstat-7.0.2-11.el5

Red Hat 6.2, and later releases, ship with a new implementation of malloc that consumes more heap memory by default. Details can be found here - 13.4. GNU C Library (glibc). Tuning the MALLOC_ARENA_MAX environment variable can reduce memory allocation.

Solaris Platform Requirements

The sudo package must be installed when running on Solaris.

Supported Browsers

TIBCO ActiveSpaces® Administrator supports these browsers. The version number is the minmum version supported.

Chrome 16

Firefox 24.6.0

Internet Explorer 9

Safari 5

Embedded JRE Version

TIBCO ActiveSpaces® Transactions ships with version 1.7.0_67 of the JRE.

Major Improvements

Security upgrades to address the POODLE security vulnerability.

OpenSSL, OpenLDAP, Apache, and PHP 3rd-party version upgrades.

String handling performance improvements.

On-going stability improvements.

Upgrading

The following changes must be made to upgrade from previous releases.

SSL3 support was disabled for all administration access - both command line and Web, to eliminate the exposure to the POODLE exploit.

Deprecations

The following features were deprecated in this release and will be removed in a future release. Please update your applications and development environment.

None

2.4.1 Resolved Issues

Bug

[FLUENCY-7008] - DIST: Deadlocks seen when define/enable of many partitions is done.

[FLUENCY-7014] - JMX: Improve getFreePort() allocation.

[FLUENCY-7019] - DIST: Failover can activate disabled partitions.

[FLUENCY-7021] - DIST: Crash in Partition cardinality() method.

[FLUENCY-7032] - RT: deadlock crash

[FLUENCY-7052] - ADMINISTRATOR: comand - Memory fault(coredump)

[FLUENCY-7082] - RT: Lock ordering issues with object services and distribution.

[FLUENCY-7137] - DIST: getPartitionStats() can fail if partition is not active.

[FLUENCY-7139] - ASTA: not updated for kabira/ast application name change

[FLUENCY-7160] - DIST: nonResponseTimeout processing is broke.

[FLUENCY-7163] - RT: SWSocket::completeConnect() can return SocketTimedOut.

[FLUENCY-7164] - DIST: Errors returned by getRemoteHostAddr() are asserted.

[FLUENCY-7172] - DIST: mutex deadlock in runtime

[FLUENCY-7221] - MONITOR: string.cpp:3389: Invalid pointer 'cString', address 0x0 is SW_HOME not set

[FLUENCY-7224] - RUNTIME: cannot start node with UTF-8 multibyte character as node name

[FLUENCY-7225] - DEPLOY: cannot deploy JVM with UTF-8 multi-byte characters in deploy options

[FLUENCY-7228] - ADMINISTRATOR: typo in error message - Not able to remove node diretory

[FLUENCY-7240] - RT: Leak of fd in SWSocket::networkSupported() on Linux

[FLUENCY-7249] - DIST: Race condition in reportLocalTransactions().

[FLUENCY-7275] - DIST: Failover check for method dispatches on partitioned instances is broke.

Documentation

[FLUENCY-7051] - DEVGUIDE: describe error handling for enable partition types

Improvement

[FLUENCY-6970] - RUNTIME: Improve Java String creation performance by directly encoding the char array.

[FLUENCY-6980] - ASTA: disable Apache Track/Trace request

[FLUENCY-7040] - RT: improve detection of OSProxyObject lock ordering issues

[FLUENCY-7276] - PERFORMANCE: improve scaling of string copyin/copy-out

Task

[FLUENCY-6909] - 3RDPARTY: upgrade OpenSSL to at least 1.0.1j

[FLUENCY-7033] - DOCTOOLS: update Two-Second Advantage tag line on title page

[FLUENCY-7078] - 3RDPARTY: upgrade Apache to at least 2.2.29

[FLUENCY-7079] - 3RDPARTY: upgrade PHP to at least 5.5.18

[FLUENCY-7080] - 3RDPARTY: upgrade OpenLDAP to at least 2.4.40

[FLUENCY-7084] - 3RDPARTY: disable SSL3 protocol for Apache httpd (POODLE)

[FLUENCY-7085] - 3RDPARTY: disable SSL3 socket support (POODLE)

[FLUENCY-7088] - Doc Impact of FLUENCY-7085 3RDPARTY: disable SSL3 socket support (POODLE)

2.4.0 Resolved Issues

Bug

[FLUENCY-426] - DIST: Arrays of ManagedObject not supported as distirbuted parameter/return type

[FLUENCY-1977] - DIST: distribution switchadmin plugin displaystatistics

[FLUENCY-1978] - DIST: distribution switchadmin plugin enablestatistics and displaystatistics

[FLUENCY-1981] - PERF: visualvm profiling tools do not work

[FLUENCY-1982] - FLUENCY: visualvm cpu monitor does not work

[FLUENCY-2660] - ASTA: kabman test modifying distrib

[FLUENCY-3153] - KDM: intermittent failure in component notifier test

[FLUENCY-3608] - STATISTICS: partition statistics filter support breaks snapshot

[FLUENCY-3888] - STATISTICS: businessstatemachine statistics filter support breaks snapshot

[FLUENCY-3912] - CONFIGURATION: accept() doesn't throw IOException when run within configuration notifier

[FLUENCY-4045] - HA: Determine how to handle concurrent define/enable of partitions.

[FLUENCY-4312] - DATAGRID: kabira-init stop does not stop as-agent

[FLUENCY-4322] - ADMINISTRATION: bogus error message for unknown command/target

[FLUENCY-4459] - SECURITY: switch core security unit test has dependency upon switchadmin unit test

[FLUENCY-4518] - DIST: failed C++ assertion 'm_psmenv->distribData[DistribTranMgr] == SWSMOffset::sNULL'

[FLUENCY-4685] - DIST: Type processing fails for discovered nodes.

[FLUENCY-4852] - JAVASE: running with debug generates warnings about signal handlers

[FLUENCY-4930] - ASTA: print statistics not working

[FLUENCY-4957] - CACHE: Missing unit tests for cache plugin.

[FLUENCY-5098] - DEPLOY: incorrect operator for string comparison in checkDistributedResult()

[FLUENCY-5113] - MONITOR: cannot display sequence using system decoding level

[FLUENCY-5328] - SNAPSHOT: event logs not captured if the Node Agent filepathTemplate was reconfigured

[FLUENCY-5329] - Doc Impact of FLUENCY-4528 SECURITY: no mechanism to hide credentials when using ASTA

[FLUENCY-5382] - SWDIAG: Crash when using displaying type descriptors.

[FLUENCY-5384] - RT: null values in auto-box arrays causes oscdr.cpp:498: failed C++ assertion 'SW_BOMB'

[FLUENCY-5399] - MONITOR: Cannot start monitor if JRE is downgraded.

[FLUENCY-5406] - DEPLOY: hangs when deploying through domain manager

[FLUENCY-5407] - Doc Impact of FLUENCY-5384 RT: null values in auto-box arrays causes oscdr.cpp:498: failed C++ assertion 'SW_BOMB'

[FLUENCY-5410] - DOMAIN: display domain error message missing "application"

[FLUENCY-5411] - RUNTIME: loaderutil.cpp:3486: failed C++ assertion 'td->getImplArchType() == DSE_IA_JAVA'

[FLUENCY-5414] - CLASSLOADER: Marshalling of arrays of objects doesn't handle null entries.

[FLUENCY-5415] - CLASSLOADER: Marshalling of autoboxed object doesn't handle null.

[FLUENCY-5421] - RUNTIME: OSTEnv::lockOffset have wrong slot description.

[FLUENCY-5422] - JAVASERVICE: jstub::JNIError exception not handled

[FLUENCY-5425] - HA: Updated JOIN_CLUSTER_PURGE and JOIN_CLUSTER_RESTORE to do work in chunks.

[FLUENCY-5426] - JAVASERVICE: Transaction.execute() passes in unused stack to native abort()

[FLUENCY-5434] - DIST: Write failures are ignored on stale cached objects.

[FLUENCY-5436] - SECURITY: audit messages not logged for java admin targets

[FLUENCY-5438] - RT: Race condition with newly created objects and ReadCommittedSnapshot.

[FLUENCY-5442] - RUNTIME: asynchronous method with array parameters type mismatch exception

[FLUENCY-5449] - Doc Impact of FLUENCY-5442 RUNTIME: asynchronous method with array parameters type mismatch exception

[FLUENCY-5460] - MC: Codegen of dates is broke.

[FLUENCY-5464] - SECURITY: access violation message does not contain user name

[FLUENCY-5468] - DIST: Need to synchronize transactions when keepalive timeouts cause failover.

[FLUENCY-5476] - ASTA: displays unknown version and build

[FLUENCY-5479] - COORD: sceng.cpp:2143: failed C++ assertion 'm_engineState != S_Killing'.

[FLUENCY-5486] - DEPLOY: slow detecting node stop in attached mode

[FLUENCY-5487] - DEPLOY: restarting node using domain deployment hangs JVM startup

[FLUENCY-5489] - RUNTIME: OSReferenceCache shared memory data corruption

[FLUENCY-5493] - SECURITY: administrator add security, password parameter help confusion

[FLUENCY-5503] - DIST: Default slot decoder crashes with string slots.

[FLUENCY-5504] - DIST: Default slot mismatch processing leaks shared memory.

[FLUENCY-5521] - DIST: restoreFromNode() skips restore if executed after enable() throws exception.

[FLUENCY-5524] - Doc Impact of FLUENCY-1978 DIST: distribution switchadmin plugin enablestatistics and displaystatistics

[FLUENCY-5539] - SWDIAG: core file generated if -C option fails

[FLUENCY-5542] - ADMINISTRATOR: Improve error handling and logging.

[FLUENCY-5551] - COMPONENT: ComponentNotifier class not found when packaged in the ear file

[FLUENCY-5568] - CLASSLOADER: audit fails when inheriting static fields

[FLUENCY-5569] - DIST: Cannot discover cluster after quorum takes all nodes offline.

[FLUENCY-5571] - CLASSLOADER: not auditing all the way up the inheritance chain for POJO fields

[FLUENCY-5572] - Doc Impact of FLUENCY-5568 CLASSLOADER: audit fails when inheriting static fields

[FLUENCY-5576] - DIST: auto-flush of non-local partitioned objects doesn't work.

[FLUENCY-5586] - HA: object not found error using restoreFromNode property

[FLUENCY-5591] - RUNTIME: dispatch to method on deleted handle

[FLUENCY-5595] - DIST: Timer stress test failure on solaris.

[FLUENCY-5602] - DIST: Crash when bad discovery packet is recieved.

[FLUENCY-5609] - EVENTSERVICE: Leaking com.kabira.platform.logging.EventService instance when jvm stopped

[FLUENCY-5613] - PERFORMANCE: poor allocator scaling until warmed up

[FLUENCY-5639] - CLASSLOADER: FATAL ERROR in native method: Non-array passed to JNI array operations

[FLUENCY-5646] - JAVASERVICE: native_object.cpp:1807: failed C++ assertion '_ju.ExceptionCheck() == JNI_TRUE'

[FLUENCY-5655] - TIMER: Update to provide best effort resolution

[FLUENCY-5660] - Doc Impact of FLUENCY-5613 PERFORMANCE: poor allocator scaling until warmed up

[FLUENCY-5707] - RT: dirty reads don't work correctly with readcommitted transactions.

[FLUENCY-5715] - DEPLOY: initial load of application slower in BE-X 1.1.0 versus BE-X 1.0.3

[FLUENCY-5717] - JAVASERVICE: classpath with whitespace in directory names not handled correctly

[FLUENCY-5735] - DIST: javatest failed with disteng_skl0.cpp:2980: failed C++ assertion 'SW_BOMB'

[FLUENCY-5738] - RT: incorrect error message in SWProcessManager::setScheduler

[FLUENCY-5759] - RUNTIME: smarthash resize table skips from 500K to 10M

[FLUENCY-5772] - COORD: Update coordinator to handle gdb attaches.

[FLUENCY-5787] - DIST: configuration does not support Infiniband

[FLUENCY-5790] - SNIPPETS: AtomicCreate comments incorrect

[FLUENCY-5793] - CLUSTER: QuorumState node status not displayed

[FLUENCY-5795] - SECURITY: export configuration missing from usage description

[FLUENCY-5797] - Doc Impact of FLUENCY-5415 CLASSLOADER: Marshalling of autoboxed object doesn't handle null.

[FLUENCY-5799] - SECURITY: display returns multiple rows for same principal if principal has multiple roles

[FLUENCY-5801] - SECURITY: user not required to use different password after reset

[FLUENCY-5811] - CLASSLOADER: assertion failure in TypeDescriptor.putType()

[FLUENCY-5822] - RUNTIME: javaservice.h:1058: failed C++ assertion 'ordinal < tagCt'

[FLUENCY-5837] - Doc Impact of FLUENCY-5793 CLUSTER: QuorumState node status not displayed

[FLUENCY-5846] - NODE: invalid service name value returned from display node

[FLUENCY-5860] - DEPLOY: unable to deploy ear or jar if name includes dash

[FLUENCY-5870] - DIST: Object create error handling can cause SEGV crashes.

[FLUENCY-5871] - DIST: State conflict on duplicate key'd object creates can cause SEGV crashes.

[FLUENCY-5880] - DIST: State conflict propagated to the caller when searching for objects.

[FLUENCY-5882] - CLASSLOADER: assertion failure with array types

[FLUENCY-5889] - CLASSLOADER: unexpected java.lang.IncompatibleClassChangeError

[FLUENCY-5896] - RT: KeyQuery getMinimumResult() doesn't return null on out of range queries.

[FLUENCY-5916] - HA: partition state not updated on nodes that are not in node list

[FLUENCY-5917] - HA: 'loclhash.cpp:321: failed C++ assertion 'keyLen > 0'' if null returned from partition mapper

[FLUENCY-5932] - COORD: can't shut node down cleanly when waiting for a notifier to be created

[FLUENCY-5935] - KDM: deployment failing to domain nodes from separate client machine

[FLUENCY-5936] - DIST: Attempted to set a prepare trigger from within a commit or abort trigger

[FLUENCY-5937] - DEPLOY: node failures generate continuous error messages

[FLUENCY-5944] - Doc Impact of FLUENCY-5917 HA: 'loclhash.cpp:321: failed C++ assertion 'keyLen > 0'' if null returned from partition mapper

[FLUENCY-5950] - DEPLOY: mishandling of .. in the deploy tool classpath

[FLUENCY-5958] - DEPLOY: continuous java.net.SocketException: Connection reset errors

[FLUENCY-5960] - DEPLOY: null pointer exception in distributed deployment

[FLUENCY-5961] - DEPLOY: ArrayIndexOutOfBoundsException during distributed deployment

[FLUENCY-5964] - DATAGRID: creating/deleting archived object in same transaction fails

[FLUENCY-5975] - RT: SWSocket error handling for SSL is broke.

[FLUENCY-5977] - DIST: Failover of object instances doesn't happen on orphan partitions.

[FLUENCY-5978] - DIST: Deadlock retries forever on objects in orphan partitions.

[FLUENCY-5987] - DIST: Processing global transactions at startup can lead to concurrent commits.

[FLUENCY-5989] - DIST: Deadlock handling when finding remote instances is broke.

[FLUENCY-5990] - DIST: Runtime using blocking NoLock when attaching objects.

[FLUENCY-5996] - DIST: Shutting down VM for a node causes problems at other nodes

[FLUENCY-5997] - DIST: Deferred writes lost when remote methods updated distributed objects.

[FLUENCY-6025] - DEPLOY: java.lang.NullPointerException on node connection failure

[FLUENCY-6028] - HA: simultaneous define/enable of same partition in cluster causes distributed deadlock

[FLUENCY-6029] - DEPLOY: error string 'File exists' coordinator log after deployment

[FLUENCY-6032] - RT: Exceptions in dispatched Java methods results in a FATAL trace.

[FLUENCY-6033] - DIST: "Scan for uncommitted partition" warning generated when node restarts.

[FLUENCY-6034] - Doc Impact of FLUENCY-5997 DIST: Deferred writes lost when remote methods updated distributed objects.

[FLUENCY-6035] - JVM: jvm target missing usage description.

[FLUENCY-6042] - DEPLOY: increase initial timeout for deploy tool waiting for a JVM to start.

[FLUENCY-6043] - DEPLOY: better handling of remote request thread detected failures against domain targets

[FLUENCY-6076] - DIST: SWHash::DuplicateKey crash seen in the global transaction manager.

[FLUENCY-6085] - STATISTICS: businessstatemachine statistics empty

[FLUENCY-6090] - HA: Partition not migrated if re-defined with a new node list.

[FLUENCY-6092] - Doc Impact of FLUENCY-1797 DIST: Node crash if one node's location is wrong

[FLUENCY-6099] - DIST: Partition notifier node lists are inconsistent when restoring a node.

[FLUENCY-6110] - HA: migrate() allowed on disabled partitions.

[FLUENCY-6113] - DIST: Partitioned instances remain in shared memory if partition is migrated off of node.

[FLUENCY-6114] - DEPLOY: deploying from Windows adds bogus classpath entries

[FLUENCY-6118] - Doc Impact of FLUENCY-6113 DIST: Partitioned instances remain in shared memory if partition is migrated off of node.

[FLUENCY-6120] - RT: Oneway dispatches to instance deleted on remote node starts spinning.

[FLUENCY-6122] - DIST: Crash when processing oneways from multiple nodes.

[FLUENCY-6150] - DEPLOY: java.lang.NullPointerException on node shutdown failure

[FLUENCY-6164] - ASTA: web server does not start on Solaris

[FLUENCY-6166] - DIST: forcedReplication is ignored when adding self as replica.

[FLUENCY-6167] - DIST: objectChunks is hardcoded to 1 when adding self as replica.

[FLUENCY-6193] - JAVASERVICE: Cannot find reference warnings

[FLUENCY-6220] - DIST: setMapper() audit can crash on empty instances.

[FLUENCY-6231] - ADMINISTRATOR: Async commands left running when client is killed.

[FLUENCY-6232] - STATISTICS: crash on exit with JNI statistics enabled

[FLUENCY-6241] - KDM: configuration cache promotion deadlock with queued command timer

[FLUENCY-6243] - KDM: configuration cache state out of sync after deadlock

[FLUENCY-6251] - RUNTIME:KeyQuery.getOrCreateSingleResult shows ObjectNotUnique exceptions / deadlocks in the log

[FLUENCY-6267] - NODE: throttle value not related to low shared memory warning

[FLUENCY-6272] - DIST: canceling HA timer in notifier cause invalid instance handle for object type

[FLUENCY-6298] - UPGRADE: upgrade tool mismatch handling report

[FLUENCY-6307] - UPGRADE: upgrade tool crashes with serialVersionUID values large than 2^32

[FLUENCY-6311] - DIST: NullPointerException can be thrown when a delete() is done while instances are migrated.

[FLUENCY-6314] - ASTA: javatransaction statistics not integrated

[FLUENCY-6317] - STATISTICS: eventlog status not included in status statistics

[FLUENCY-6321] - NODE: getadminport nodename parameter not used

[FLUENCY-6323] - TIMER: restoring highly available timers causes duplicate key exceptions

[FLUENCY-6336] - CONFIGURATION: configuration load failing with ResourceUnavailable

[FLUENCY-6338] - DIST: enablePartitions() can throw duplicate key exceptions when concurrent deletes are executing.

[FLUENCY-6342] - Doc Impact of FLUENCY-6321 NODE: getadminport nodename parameter not used

[FLUENCY-6343] - DIST: handle distribution configuration with different name than the active distribution configuration

[FLUENCY-6345] - DIST: create can be executed multiple times with async replication.

[FLUENCY-6352] - DIST: Empty type name in trace when remote types are published.

[FLUENCY-6356] - DIST: Node down causes multiple "Pushing type" INFO traces.

[FLUENCY-6365] - SWDIAG: allocator report doesn't respect the verbose option

[FLUENCY-6371] - ASTA: audit security drop down does not include target names

[FLUENCY-6374] - RUNTIME: Java dispatcher does not process system exceptions correctly.

[FLUENCY-6397] - CLUSTER: join cluster admin command does not handle NodeMismatch exception

[FLUENCY-6410] - RT: unknown op in distributed callstacks.

[FLUENCY-6418] - DIST: Missing stats updates when replicas are offline or runtime throws an exception.

[FLUENCY-6419] - ARCHGUIDE: Failover removes undiscovered replicas.

[FLUENCY-6421] - RUNTIME: timeout deadlock reporting can examine invalid memory

[FLUENCY-6423] - UPGRADE: upgrade tool doesn't handle mutable key annotation

[FLUENCY-6438] - DIST: Enabling "sparse" partition performs incorrect state transitions.

[FLUENCY-6439] - UPGRADE: changing serial identifier causes type mismatch

[FLUENCY-6441] - RT: Crash when getOrCreateSingleResult() with missing ordered key fields is executed.

[FLUENCY-6444] - ASTA: state enabled buttons not working

[FLUENCY-6446] - Doc Impact of FLUENCY-6418 DIST: Missing stats updates when replicas are offline or runtime throws an exception.

[FLUENCY-6449] - Doc Impact of FLUENCY-6231 ADMINISTRATOR: Async commands left running when client is killed.

[FLUENCY-6465] - Doc Impact of FLUENCY-6267 NODE: throttle value not related to low shared memory warning

[FLUENCY-6470] - SWDIAG: Active transaction dump duplicates locked objects.

[FLUENCY-6471] - DIST: split brain dispatches can cause recursion that kills node.

[FLUENCY-6472] - KDM: deadlocks when executing queued configuration cache commands

[FLUENCY-6485] - DIST: Partition cache can get out of sync with partition in shared memory.

[FLUENCY-6487] - DIST: Sparse instances can have wrong flushable state after a migrate()

[FLUENCY-6495] - CLASSLOADER: VerifyError Bad type on operand stack

[FLUENCY-6496] - COMPONENT: Notifier. getTargetArchive only supports .ear and .jar archives

[FLUENCY-6497] - CLASSLOADER: java.lang.VerifyError - Inconsistent stack height 1 != 0

[FLUENCY-6503] - DIST: Move partition to Unavailable state if enable of partition fails.

[FLUENCY-6506] - FLUSHER: flusher thread disabled by default

[FLUENCY-6507] - FLUSHER: CacheManager.Cache.flush() behavior

[FLUENCY-6508] - UPGRADE: upgrade tool doesn't detect all managed classes

[FLUENCY-6510] - CACHE: CacheManager.Cache.getClasses() ClassNotFoundException

[FLUENCY-6511] - CACHE: flushes per second statistic incorrect if there has been a clear

[FLUENCY-6520] - TIMER: replicated timers prevent clean node shutdown

[FLUENCY-6523] - ASTA: partition display not working

[FLUENCY-6529] - DIST: Enabling sparse partitions generated misleading traces.

[FLUENCY-6530] - DIST: Enabling sparse partitions with force replication can result in state conflicts.

[FLUENCY-6532] - DIST: Distributed queries return unpartitioned objects.

[FLUENCY-6539] - DIST: definePartition() can accidentally enable remote partitions.

[FLUENCY-6542] - Doc Impact of FLUENCY-6438 DIST: Enabling "sparse" partition performs incorrect state transitions.

[FLUENCY-6543] - RT: Extent iteration can throw null pointer exceptions.

[FLUENCY-6544] - DIST: updated engine termination to stop keepalive thread first.

[FLUENCY-6545] - KDM: queued command timer interval set to incorrect value

[FLUENCY-6548] - Doc Impact of FLUENCY-6503 DIST: Move partition to Unavailable state if enable of partition fails.

[FLUENCY-6550] - Doc Impact of FLUENCY-6343 DIST: handle distribution configuration with different name than the active distribution configuration

[FLUENCY-6553] - KDM: segmentation fault when inactivity timeout occurs

[FLUENCY-6554] - NODE: extra new-line in help node usage string

[FLUENCY-6558] - DIST: failover exceptions can cause nodes to crash.

[FLUENCY-6560] - DIST: Remote updates overwrite state, but not status.

[FLUENCY-6561] - DIST: Update keepalive error signaling.

[FLUENCY-6565] - RT: Remove SWSmartReference

[FLUENCY-6567] - DIST: Uncaught application exceptions in notifiers can kill node.

[FLUENCY-6568] - DIST: node list mismatch for sparse partitions

[FLUENCY-6569] - DIST: Incorrect state transitions happen with new versioned partitions.

[FLUENCY-6570] - Doc Impact of FLUENCY-6560 DIST: Remote updates overwrite state, but not status.

[FLUENCY-6576] - CONFIG: remove configuration throws invalid instance handle if nested configuration object already deleted

[FLUENCY-6577] - JAVASERVICE: java configurations removed during reset=true cleanup even if another JVM is running

[FLUENCY-6580] - Doc Impact of FLUENCY-6568 DIST: node list mismatch for sparse partitions

[FLUENCY-6584] - ADMIN: upgrade node/create snapshot failure tibcojre/1.7.0_45_x86_64/lib/amd64/server does not exist

[FLUENCY-6602] - DIST: Aborted enablePartition() doesn't restore state.

[FLUENCY-6603] - DIST: Crash when a engine restart commits a partition.

[FLUENCY-6604] - ASTA: named cache tab not refreshed after creating a cache

[FLUENCY-6609] - DIST: getPartitions() needs to screen out invalid partitions.

[FLUENCY-6613] - ASTA: apache server fails to start on RedHat 6.3

[FLUENCY-6617] - SNAPSHOT: corrupt shared memory message problems

[FLUENCY-6619] - CLASSLOADER: null pointer setting initialized array element

[FLUENCY-6621] - DIST: Async partition broadcasts may be done on partially defined partitions.

[FLUENCY-6624] - DIST: Detection of type mismatches can be missed, causing allocation crashes.

[FLUENCY-6645] - RT: Deadlock truncation is broke.

[FLUENCY-6655] - ADMINGUIDE: Incorrect multi-master restore command line.

[FLUENCY-6656] - DIST: ManagedObject.extent(QUERY_CLUSTER, READLOCK) returns invalid object

[FLUENCY-6667] - CACHE: cache migration failure

[FLUENCY-6668] - CACHE: confusing flush exception

[FLUENCY-6669] - CACHE: stress test crash, flusher calling notifier

[FLUENCY-6670] - BUILD: compilation fails on RedHat 6.4

[FLUENCY-6671] - INSTALLER: update AST installer for P.AST 2.4.0 archive

[FLUENCY-6674] - CACHE: shutdown hang in flusher stress test

[FLUENCY-6677] - Doc Impact of FLUENCY-6668 CACHE: confusing flush exception

[FLUENCY-6687] - RUNTIME: object locking transaction statistics may be inaccurate

[FLUENCY-6700] - RT: Warning trace in findScopedSlot() method.

[FLUENCY-6702] - RT: user's LD_LIBRARY_PATH directories should be at the end of LD_LIBRARY_PATH

[FLUENCY-6703] - MONITOR: sort by name option doesn't work in system allocation window

[FLUENCY-6718] - CACHE: race condition in flusher/disttest

[FLUENCY-6724] - FLUSHER: local objects not flushed

[FLUENCY-6725] - CACHE: removing a named cache doesn't clear cached state of associated type descriptors

[FLUENCY-6727] - DIST: Type mismatches with one type having no fields can crash the runtime.

[FLUENCY-6737] - UPGRADE: audit failure with cardinality of zero and a non-partitioned object

[FLUENCY-6738] - HA: partition state on remote node set to RemoteEnabled before enabled

[FLUENCY-6739] - STATISTICS: namedcache statisitc not displaying correctly

[FLUENCY-6748] - FLUSH: delete trigger not called on flush

[FLUENCY-6750] - PARTITION: broadcastupdates not reset to true following an enable

[FLUENCY-6754] - DIST: Need to synchronize async thread with distribution shutdown.

[FLUENCY-6755] - Doc Impact of FLUENCY-6748 FLUSH: delete trigger not called on flush

[FLUENCY-6756] - ACTIVESPACES: data coherency, leaked transactions

[FLUENCY-6757] - ACTIVESPACES: memory leak

[FLUENCY-6763] - CACHE: size 0 cache - object never flushed

[FLUENCY-6769] - SNAPSHOT: create snapshot fails when use destination parameter and relative path

[FLUENCY-6774] - DIST: processTypes() crashes if dependent type list has duplicates.

[FLUENCY-6778] - FLUSHER: flusher thread not handling ResourceUnavailable

[FLUENCY-6791] - DIST: Keepalive processing ignores nonResponseTimeoutSeconds in sending response.

[FLUENCY-6798] - RT: Update illegal call to exit message

[FLUENCY-6800] - NODE: node name of E fails to start

[FLUENCY-6801] - RT: misleading deadlock backoff warning trace during shutdown

[FLUENCY-6803] - STATISTICS: bad start date in statistics output

[FLUENCY-6809] - DIST: Duplicate reference handling can result in uncaught deadlocks.

[FLUENCY-6817] - DIST: duplicate key processing is broke for secondary keys.

[FLUENCY-6830] - DIST: partition cache gets out of sync with shared memory.

[FLUENCY-6831] - DIST: Remote reference lookup can fail with uncaught operation retry when marshaling response.

[FLUENCY-6844] - RT: engine.cpp(2856)|transaction [88:0, tid 7582]: <empty message>

[FLUENCY-6845] - TOOLS: sw_mkall -c in core leaves the shared design center running

[FLUENCY-6848] - RT: SIGSEGV using READ_COMMITTED_SNAPSHOT asynchronous method

[FLUENCY-6849] - ADMINISTRATION: object destroyed trace when checking for abandoned commands

[FLUENCY-6850] - MONITOR: display decimal number with leading 0x

[FLUENCY-6852] - DIST: Transaction can be abandoned when doing distributed find/query.

[FLUENCY-6878] - RT: runObjectNotifier() crashes if non-Java types are present in transaction.

[FLUENCY-6879] - DIST: Remote enable of partitions allowed on node that has left the cluster.

[FLUENCY-6892] - CONFIG: Crash in switchconfig.act if no inactive version exists.

[FLUENCY-6896] - RT: Dispatching twoway that returns a null array crashes the runtime.

[FLUENCY-6904] - ASTPERF: PLATFORM-HIGHAVAILABILITY-0080 - Migrate done on wrong node

[FLUENCY-6905] - ASTPERF: Performance test80 and test90 missing from nightly regressions

[FLUENCY-6917] - ASTPERF: javadoc for Base.cleanMemory() incorrect

[FLUENCY-6920] - DIST: Remove all notion of "implicit" commit and abort.

[FLUENCY-6923] - MONITOR: domain and type identifiers displayed as negative number

[FLUENCY-6934] - Doc Impact of FLUENCY-6738 HA: partition state on remote node set to RemoteEnabled before enabled

[FLUENCY-6945] - DIST: Engine gets stuck in failover due to active channels not getting released.

[FLUENCY-6946] - DIST: Runtime retries deadlocks forever when processing types.

[FLUENCY-6960] - ASTPERF: Cannot find property "nodeList" for PLATFORM-MANAGEDOBJECT-0045

[FLUENCY-6962] - RT: implicit character set conversions cause oscdr.cpp(497)|Invalid increment of 540238 bytes

[FLUENCY-6967] - SWDIAG: assertion failure / crash with -c option (DEVELOPMENT mode)

[FLUENCY-6968] - SWDIAG: Displays negative numbers for type descriptor values

[FLUENCY-6972] - MONITOR: navigating to type spec broken

[FLUENCY-6973] - MONITOR: object references displaying with negative numbers

[FLUENCY-6975] - JAVASERVICE: Updated all Java exposed interfaces that pass binary strings to use byte arrays.

[FLUENCY-6989] - RUNTIME: Memory leak in OSTypeReferences implementation.

[FLUENCY-6995] - DIST: sendObjectRequest() can access deleted write channels.

Documentation

[FLUENCY-3342] - HA: Determine how to handle "orphan" objects and partitions.

[FLUENCY-4774] - ADMINGUIDE: document command line

[FLUENCY-4787] - DEVGUIDE: update distributed caching to describe refresh on write

[FLUENCY-5191] - ARCHGUIDE: update transaction outcome voting

[FLUENCY-5386] - DEVGUIDE: add section on named caches

[FLUENCY-5390] - DEVGUIDE: mismatched keys not supported on upgrade

[FLUENCY-5396] - ADMINGUIDE: remove kabira.metrics from sample node configuration in Administration guide

[FLUENCY-5397] - USERDOC: Update copyright year

[FLUENCY-5492] - ADMINISTRATION: clarify deploy directory behavior

[FLUENCY-5526] - ASTA: Apache fails to start on RedHat 6.1

[FLUENCY-5578] - 3RDPARTY: Duplicate declarations fro Lookup3.x and OpenLDAP

[FLUENCY-5634] - 3RDPARTY: remove dns_sd.h and mdns_sd.sh from 3rd-party file

[FLUENCY-5671] - 3RDPARTY: Incorrect 3rd party software vendor and contact URL information

[FLUENCY-5686] - TUNING: add schedulerpolicy deploy tool parameter

[FLUENCY-5756] - DEVGUIDE: add explanation and sample for key inheritance

[FLUENCY-5761] - TUNING: vmstat sample interval not documented

[FLUENCY-5808] - TUNING: add Linux tunable parameters to tuning guide

[FLUENCY-5851] - TUNING: add a note about hardware configuration and tuning

[FLUENCY-5881] - DIST: document getOrCreateSingleResult() behavior with query scope and partitioned objects

[FLUENCY-6070] - ADMINGUIDE: make it explicit that domain managers are not part of cluster quorum calculation

[FLUENCY-6080] - DEVGUIDE: add information on behavior of static fields

[FLUENCY-6160] - DEVGUIDE: describe use of PartitionManager.waitForNode

[FLUENCY-6200] - ADMINGUIDE: document event log management

[FLUENCY-6247] - HA: PartitionManager.enablePartition is synchronous

[FLUENCY-6248] - HA: add details on when PartitionManager.EnableAction types should be used

[FLUENCY-6249] - DEVGUIDE: add section on restoring a node

[FLUENCY-6250] - HA: API and administration commands should not be used together

[FLUENCY-6270] - DOCUMENTATION: Developer's Guide, Distributed Computing, Guidelines

[FLUENCY-6274] - DOCUMENTATION: Transaction javadoc

[FLUENCY-6275] - TIMER: add more details to the timer javadoc on transactional guarantees

[FLUENCY-6324] - RELEASENOTES: sudo package for starting mdns on Solaris

[FLUENCY-6325] - DEVGUIDE: ordering of partitioning enabling undefined

[FLUENCY-6348] - DOCUMENTATION: cluster wide queries and implicit write locks

[FLUENCY-6357] - DEVGUIDE: add transparent retry snippet

[FLUENCY-6368] - CONFIGURATION: ConfigurationListener javadoc never defines "register"

[FLUENCY-6453] - TUNING: document life-cycle of statistics

[FLUENCY-6463] - DEVGUIDE: devguide distributed computing

[FLUENCY-6478] - DOCS: Update copyright to 2014

[FLUENCY-6492] - ADMINGUIDE: join cluster clarifications

[FLUENCY-6509] - CACHE: document flushing behavior in flush() API javadoc

[FLUENCY-6516] - DEVGUIDE: document enable node blocking behavior waiting for active node

[FLUENCY-6538] - ARCHGUIDE: add description of sparse partitions

[FLUENCY-6566] - ADMINGUIDE: describe System V Shared Memory and node removal in Administration Guide

[FLUENCY-6583] - ARCHGUIDE: clarify that partitioned objects are removed after node leaves cluster

[FLUENCY-6597] - DOCUMENTATION: Asynchronous methods and JVM lifecycle

[FLUENCY-6633] - DEVGUIDE: High availability questions

[FLUENCY-6638] - DEVGUIDE: Keys and Queries, Developer's Guide, Managed Object with a Unique Key

[FLUENCY-6642] - SIZING: incorrect reference to Type.memorySize

[FLUENCY-6662] - Doc Impact of FLUENCY-6509 CACHE: document flushing behavior in flush() API javadoc

[FLUENCY-6726] - ARCHGUIDE: upgrade and non-partitioned objects

[FLUENCY-6734] - TIMER: document timer behavior when seconds=0

[FLUENCY-6736] - INSTALL: updates to installation guide for AST 2.4.0

[FLUENCY-6835] - TUNING: Add garbage collection recommendations

[FLUENCY-6837] - ARCHGUIDE: update remote node states

[FLUENCY-6839] - DEVGUIDE: upgrade JVM SE 6 references to JVM SE 7

[FLUENCY-6843] - 3RDPARTY: updated supported FireFox browser version

[FLUENCY-6870] - TUNING: add information about garbage collection log file rollover

[FLUENCY-6876] - INSTALL: install guide release notes for extra package requirements

[FLUENCY-6890] - TUNING: add section about running statistics in a production system

[FLUENCY-6925] - ASTPERF: sw_mvn command

[FLUENCY-6926] - ASTPERF: How to build test plan

[FLUENCY-6928] - ARCHGUIDE: make it explicit that transaction boundaries are maintained during async replication.

Improvement

[FLUENCY-845] - DIST: support SSL for node-to-node connectivity

[FLUENCY-1159] - NODE: support commands on node target to stop/restart coordinator

[FLUENCY-1943] - ASTA: integrate distribution statistics

[FLUENCY-1966] - COMPONENT: support non-public notifiers

[FLUENCY-1974] - STATISTICS: integrate distribution statistics with the runtimestatistics plugin

[FLUENCY-1992] - AST: duplicate release notes in fluency and fluency-maven project

[FLUENCY-2867] - DEPLOY: add option for ignoring options file

[FLUENCY-3060] - KDM: audit connectionRetryIntervalSeconds > 0

[FLUENCY-3388] - SNAPSHOT: implement sharedmemory option

[FLUENCY-3390] - ASTA: provide navigation from partition screens to enable partitions on node screen.

[FLUENCY-3451] - DEPLOY: remove JMX information on stdout

[FLUENCY-3505] - DEPLOY: detect mismatched versions between client and server.

[FLUENCY-4102] - HA: provide access to conflicting data in compensation trigger

[FLUENCY-4154] - SNAPSHOT: help not available when node down

[FLUENCY-4184] - HA: add support for setting partition properties

[FLUENCY-4274] - MAVEN: Supply maven-based license information

[FLUENCY-4383] - CLASSLOADER: Getting synthetic m_objectReference for annotated classes is inefficient

[FLUENCY-4504] - NODE: remove system coordinator information from install node

[FLUENCY-4534] - DEPLOY: support templated deployment specifications

[FLUENCY-4671] - SNAPSHOT: capture jstack output on JVMs

[FLUENCY-5006] - STATISTICS: rename administration target to statistics

[FLUENCY-5076] - DEPLOY: deploy tool debug tracing

[FLUENCY-5166] - DEPLOY: remote class and resource loading performance

[FLUENCY-5295] - STATISTICS: time parameter to snapshot command should include units

[FLUENCY-5310] - HA: Enhance quorum support to allow more sophisticated rules.

[FLUENCY-5350] - JAVADOC: SDK javadoc generation script

[FLUENCY-5373] - CACHE: add support for remove cache command

[FLUENCY-5389] - CACHE: rename default named partitions

[FLUENCY-5429] - ADMINISTRATION: verbosenode option type not described

[FLUENCY-5430] - RUNTIME: threadId is not set in production systems.

[FLUENCY-5439] - DIST: Log before and after partition definitions when migrating partitions.

[FLUENCY-5445] - ADMINISTRATION: java management targets should validate command before access check

[FLUENCY-5453] - BUILD: remove monitor.mak

[FLUENCY-5469] - RUNTIME: poor hashing distribution with string/binary hash function

[FLUENCY-5481] - DEPLOY: generate event when user executes a deploy command

[FLUENCY-5501] - RUNTIME: large numbers of objects and hashing

[FLUENCY-5523] - Doc Impact of FLUENCY-1974 RUNTIMESTATISTICS: integrate distribution statistics with the runtimestatistics plugin

[FLUENCY-5525] - Doc Impact of FLUENCY-1943 ASTA: integrate distribution statistics

[FLUENCY-5537] - Doc Impact of FLUENCY-5310 HA: Enhance quorum support to allow more sophisticated rules.

[FLUENCY-5561] - CLASSLOADER: cache isLocal() in the Java managed object

[FLUENCY-5566] - RUNTIME: improve the performance of hashCode() for Managed objects

[FLUENCY-5567] - CLASSLOADER: improve cannot inherit fields audit failure

[FLUENCY-5574] - DIST: add a nodeActiveTimeoutSeconds configuration attribute

[FLUENCY-5582] - PARTITION: add support for defining partitions on nodes not in partition definition

[FLUENCY-5583] - HA: automatically maintain cluster wide view of partitions

[FLUENCY-5643] - RUNTIME: include thread id in transaction name

[FLUENCY-5645] - RT: Add support for changing the scheduling policy and parameters.

[FLUENCY-5661] - MC: Updated codegen of virtual dispatch to not use exceptions.

[FLUENCY-5664] - RT: Improve segmented allocator reports

[FLUENCY-5681] - RT: improve concurrency of com.kabira.platform.ManagedObject.isManagedClass

[FLUENCY-5749] - DEPLOY: copy target to server in detached mode

[FLUENCY-5776] - RT: scheduler policy failure crashes the node

[FLUENCY-5794] - RT: improve ManagedClassError exception message

[FLUENCY-5796] - Doc Impact of FLUENCY-5664 RT: Improve segmented allocator reports

[FLUENCY-5800] - CLASSLOADER: add info trace for dynamic class path additions

[FLUENCY-5834] - Doc Impact of FLUENCY-5582 PARTITION: add support for defining partitions on nodes not in partition definition

[FLUENCY-5838] - DIST: Remove "Not Initialized" quorum state.

[FLUENCY-5862] - SNAPSHOT: add Apache log files to snapshot file

[FLUENCY-5933] - DEPLOY: add engine log tracing that captures user's deploy command

[FLUENCY-5939] - COORD: cannot enable debug tracing in the swcoordadmin engine

[FLUENCY-5951] - Doc Impact of FLUENCY-5166 DEPLOY: remote class and resource loading performance

[FLUENCY-5968] - 3RDPARTY: Update Java SE7 version

[FLUENCY-5980] - Doc Impact of FLUENCY-845 DIST: support SSL for node-to-node connectivity

[FLUENCY-5981] - DIST: Include current broadcastAddressList value in display command.

[FLUENCY-5991] - DEPLOY: move product-specific logic out of the generic deploy tool

[FLUENCY-6006] - DEPLOY: add support for setting engine abort timer value

[FLUENCY-6007] - COORD: remove kill timer

[FLUENCY-6018] - DIST: executing distributed operation from commit trigger fails

[FLUENCY-6038] - DEPLOY: improve formatting of deploy class path on server

[FLUENCY-6045] - SHUTDOWN: need better error message when pstack not installed

[FLUENCY-6055] - Doc Impact of FLUENCY-5838 DIST: Remove "Not Initialized" quorum state.

[FLUENCY-6061] - Doc Impact of FLUENCY-3505 DEPLOY: detect mismatched versions between client and server.

[FLUENCY-6073] - DEPLOY: load failed error message repeated

[FLUENCY-6074] - Doc Impact of FLUENCY-5574 DIST: add a nodeActiveTimeoutSeconds configuration attribute

[FLUENCY-6075] - Doc Impact of FLUENCY-5749 DEPLOY: copy target to server in detached mode

[FLUENCY-6088] - DIST: PartitionManager::isPartitioned causing EventBus dispatch

[FLUENCY-6101] - Doc Impact of FLUENCY-5968 3RDPARTY: Update Java SE7 version

[FLUENCY-6119] - Doc Impact of FLUENCY-5583 HA: automatically maintain cluster wide view of partitions

[FLUENCY-6127] - Doc Impact of FLUENCY-6088 DIST: PartitionManager::isPartitioned causing EventBus dispatch

[FLUENCY-6153] - DIST: Improve scaling when migrating objects.

[FLUENCY-6191] - 3RDPARTY: Update Java SE 7 to Update 45

[FLUENCY-6195] - SNAPSHOT: old events logs make snapshot large

[FLUENCY-6206] - DIST: Add support for accessing all partitions from a remote node.

[FLUENCY-6214] - DIST: audit that restoreFromNode matches the active node

[FLUENCY-6227] - DIST: Update setMapper() to return old instance if it exists.

[FLUENCY-6229] - Doc Impact of FLUENCY-6153 DIST: Improve scaling when migrating objects.

[FLUENCY-6230] - DIST: Improve scaling when re-partitioning objects.

[FLUENCY-6234] - STATISTICS: normalize JNI and Native statistics

[FLUENCY-6256] - RT: improve ObjectServices.objectToString error reporting

[FLUENCY-6259] - RT: ObjectServices.objectToString returns empty string for objects deleted in current transaction

[FLUENCY-6260] - DIST: add undiscovered node name to unresolved location log

[FLUENCY-6262] - RT: Deprecate swbuiltin.ObjectServices.objectToString() / stringToObject(), replace with ManagedObject methods

[FLUENCY-6264] - CLASSLOADER: improve illegal return type exception message

[FLUENCY-6268] - RT: throttle log should be a warning

[FLUENCY-6283] - Doc Impact of FLUENCY-5006 RUNTIMESTATISTICS: rename administration target to statistics

[FLUENCY-6287] - CLUSTER: add support for join cluster purge

[FLUENCY-6289] - Doc Impact of FLUENCY-6262 RT: Deprecate swbuiltin.ObjectServices.objectToString() / stringToObject(), replace with ManagedObject methods

[FLUENCY-6294] - PARTITION: rename update partition to migrate partition

[FLUENCY-6306] - CACHE: duplicate create does not raise an error

[FLUENCY-6309] - CHANNEL: make serviceName & endpointName parameter names all lowercase

[FLUENCY-6316] - STATISTICS: unknown statistics type should print supported types

[FLUENCY-6322] - NODE: nodename parameter not needed for remove node

[FLUENCY-6327] - DIST: Update waitForNode() to include whether remote node can access local node.

[FLUENCY-6335] - STATISTICS: rename snapshot time parameter to seconds

[FLUENCY-6337] - HA: update display partition to display list of classes mapped into a partition

[FLUENCY-6339] - Doc Impact of FLUENCY-6227 DIST: Update setMapper() to return old instance if it exists.

[FLUENCY-6340] - Doc Impact of FLUENCY-6214 DIST: audit that restoreFromNode matches the active node

[FLUENCY-6341] - Doc Impact of FLUENCY-6322 NODE: nodename parameter not needed for remove node

[FLUENCY-6344] - Doc Impact of FLUENCY-6335 STATISTICS: rename snapshot time parameter to seconds

[FLUENCY-6358] - DIST: improve distributed deadlock reporting

[FLUENCY-6361] - Doc Impact of FLUENCY-4184 HA: add support for setting partition properties

[FLUENCY-6362] - Doc Impact of FLUENCY-6287 CLUSTER: add support for join cluster purge

[FLUENCY-6367] - SNAPSHOT: remove hard-wired list of system process log file name

[FLUENCY-6370] - PARTITION: add Restore From Node in display output

[FLUENCY-6376] - Doc Impact of FLUENCY-1159 NODE: support commands on node target to stop/restart coordinator

[FLUENCY-6377] - Doc Impact of FLUENCY-4504 NODE: remove system coordinator information from install node

[FLUENCY-6381] - DIST: improve tracing of partition transitions

[FLUENCY-6382] - SNAPSHOT: add host memory / swap information

[FLUENCY-6384] - Doc Impact of FLUENCY-6358 DIST: improve distributed deadlock reporting

[FLUENCY-6386] - RT: Remove "java stack" delineators generated by javaservice library.

[FLUENCY-6387] - Doc Impact of FLUENCY-6337 HA: update display partition to display list of classes mapped into a partition

[FLUENCY-6388] - Doc Impact of FLUENCY-6370 PARTITION: add Restore From Node in display output

[FLUENCY-6391] - DIST: Update asynchronous replication to have the work always performed on the active node.

[FLUENCY-6393] - Doc Impact of FLUENCY-4154 SNAPSHOT: help not available when node down

[FLUENCY-6402] - RT: improve com.kabira.platform.ManagedClassError exception

[FLUENCY-6405] - HA: replace the leave cluster force parameter with an equivalent enum parameter

[FLUENCY-6406] - Doc Impact of FLUENCY-6191 3RDPARTY: Update Java SE 7 to Update 45

[FLUENCY-6420] - Doc Impact of FLUENCY-6405 HA: replace the leave cluster force parameter with an equivalent enum parameter

[FLUENCY-6429] - NODEAGENT: publish event when remote connection established

[FLUENCY-6432] - NODEAGENT: publish event on connection failure

[FLUENCY-6434] - SNAPSHOT: add load average information

[FLUENCY-6442] - RT: Support arrays for additional fields in KeyQuery.getOrCreateSingleResult()

[FLUENCY-6443] - UPGRADE: support upgrade node that does not perform an upgrade

[FLUENCY-6445] - DIST: Update migrate state checks to only be applied to current objectsLockedPerTransaction.

[FLUENCY-6448] - Doc Impact of FLUENCY-6443 UPGRADE: support upgrade node that does not perform an upgrade

[FLUENCY-6469] - DIST: Adding or removing a replica is single threaded.

[FLUENCY-6486] - RT: Updated deadlock backoff to shorten sleep interval for retryable operations.

[FLUENCY-6498] - STATISTICS: add global transaction identifiers to blocked transaction report

[FLUENCY-6502] - RUNTIME: update deadlock backoff traces to include transaction identifier and description

[FLUENCY-6512] - NODE: add product version to display

[FLUENCY-6513] - Doc Impact of FLUENCY-6512 NODE: add product version to display

[FLUENCY-6533] - DIST: Support both static and dynamic discovery in a cluster.

[FLUENCY-6536] - DIST: Improve performance of multiple remote node failures.

[FLUENCY-6541] - Doc Impact of FLUENCY-6445 DIST: Update migrate state checks to only be applied to current objectsLockedPerTransaction.

[FLUENCY-6547] - Doc Impact of FLUENCY-6533 DIST: Support both static and dynamic discovery in a cluster.

[FLUENCY-6582] - JMX: improve failed to start message

[FLUENCY-6610] - COORD: add user environment information

[FLUENCY-6611] - SNAPSHOT: add operating system versions

[FLUENCY-6679] - Doc Impact of FLUENCY-5373 CACHE: add support for remove cache command

[FLUENCY-6682] - DIST: include global transaction identifier in deadlock messages

[FLUENCY-6691] - COORD: user PATH not inherited on node startup

[FLUENCY-6705] - DIST: Update keepalives to tolerate transient network failures.

[FLUENCY-6706] - SNAPSHOT: add process information

[FLUENCY-6707] - HA: add partition information to ResourceUnavailableException

[FLUENCY-6719] - DIST: Skip read channel wait if channels are blocked in poll().

[FLUENCY-6745] - DIST: Update keepalive processing to process multiple node failures.

[FLUENCY-6753] - Doc Impact of FLUENCY-6498 STATISTICS: add global transaction identifiers to blocked transaction report

[FLUENCY-6761] - Doc Impact of FLUENCY-6691 COORD: user PATH not inherited on node startup

[FLUENCY-6782] - Doc Impact of FLUENCY-6006 DEPLOY: add support for setting engine abort timer value

[FLUENCY-6785] - CONFIG: improve notifier not available error message

[FLUENCY-6788] - FLUSHER: ignore notifier and trigger failures

[FLUENCY-6790] - RT: Update engine terminate message to remove abortTimeout

[FLUENCY-6792] - QUERY: KeyIterator finalizer and garbage collection

[FLUENCY-6796] - Doc Impact of FLUENCY-6705 DIST: Update keepalives to tolerate transient network failures.

[FLUENCY-6815] - DIST: add request type to cannot send request trace message

[FLUENCY-6826] - RT: Excessive INFO traces for dispatched exceptions.

[FLUENCY-6834] - JAVASERVICE: enable garbage collection log

[FLUENCY-6846] - Doc Impact of FLUENCY-2867 DEPLOY: add option for ignoring options file

[FLUENCY-6856] - RT: add inexpensive quick validation for shared memory offset

[FLUENCY-6868] - SNAPSHOT: add event bus report

[FLUENCY-6883] - DIST: Add EnableAction and DisableAction values to the Info traces when doing an enable or disable.

[FLUENCY-6889] - STATISTICS: add parameter data to event bus event reporting

[FLUENCY-6913] - RUNTIME: add debug trace message for timers

[FLUENCY-6933] - ASTPERF: change PLATFORM-MANAGEDOBJECT-0050 result reporting

[FLUENCY-6938] - SNAPSHOT: add threads report

[FLUENCY-6944] - DIST: Warning on ObjectNotUnique is misleading.

[FLUENCY-6947] - SNAPSHOT: Add distribution information to snapshot.

[FLUENCY-6954] - SNAPSHOT: Add snapshot timestamp

[FLUENCY-6956] - DEPLOY: JVMDeployed event not in audit log

[FLUENCY-6963] - RT: store strings in shared memory as UTF-8

[FLUENCY-6981] - ENGINE: update process name to engine name

[FLUENCY-6993] - Doc Impact of FLUENCY-6391 DIST: Update asynchronous replication to have the work always performed on the active node.

New Feature

[FLUENCY-3453] - ASTA: support discover cluster

[FLUENCY-5145] - STATISTICS: add visibility into what operations are being dispatched across the event bus

[FLUENCY-5353] - DIST: add support for Infiniband

[FLUENCY-5470] - STATISTICS: add hash distribution reporting

[FLUENCY-5490] - Doc Impact of FLUENCY-5470 RUNTIMESTATISTICS: add hash distribution reporting

[FLUENCY-5616] - DATAGRID: ship RC file to start up data grid

[FLUENCY-5812] - Doc Impact of FLUENCY-5353 DIST: add support for Infiniband

[FLUENCY-5919] - HA: add support for removing a partition mapper

[FLUENCY-5931] - Doc Impact of FLUENCY-5145 RUNTIMESTATISTICS: add visibility into what operations are being dispatched across the event bus

[FLUENCY-5945] - Doc Impact of FLUENCY-5919 HA: add support for removing a partition mapper

[FLUENCY-5947] - CACHE: add support for flushing any managed object

[FLUENCY-6053] - CACHE: add support for flush notification

[FLUENCY-6170] - STATISTICS: add JNI statistics

[FLUENCY-6181] - DIST: Add support for cardinality() method to partition

[FLUENCY-6198] - SNAPSHOT: add swdiag types/cardinality to snapshot output

[FLUENCY-6199] - SNAPSHOT: add memory utilization report

[FLUENCY-6225] - Doc Impact of FLUENCY-6170 RUNTIMESTATISTICS: add JNI statistics

[FLUENCY-6366] - SNAPSHOT: add active transactions report to snapshot

[FLUENCY-6372] - STATISTICS: add runtime data structures memory usage report

[FLUENCY-6375] - STATISTICS: add active transactions report

[FLUENCY-6396] - Doc Impact of FLUENCY-6375 STATISTICS: add active transactions report

[FLUENCY-6398] - Doc Impact of FLUENCY-3453 ASTA: support discover cluster

[FLUENCY-6399] - SNAPSHOT: add no shared memory option

[FLUENCY-6400] - Doc Impact of FLUENCY-6372 STATISTICS: add runtime data structures memory usage report

[FLUENCY-6413] - RUNTIME: add transaction description

[FLUENCY-6422] - Doc Impact of FLUENCY-6369 PARTITION: add support for enabling/disabling single partitions

[FLUENCY-6431] - Doc Impact of FLUENCY-6413 RUNTIME: add transaction description

[FLUENCY-6499] - CACHE: add statistics

[FLUENCY-6501] - CACHE: support inheritance

[FLUENCY-6618] - Doc Impact of FLUENCY-6053 CACHE: add support for flush notification

[FLUENCY-6648] - Doc Impact of FLUENCY-5947 CACHE: add support for flushing any managed object

[FLUENCY-6659] - Doc Impact of FLUENCY-6499 CACHE: add statistics

[FLUENCY-6663] - HA: add support for simulating split-brain

[FLUENCY-6676] - Doc Impact of FLUENCY-6501 CACHE: support inheritance

[FLUENCY-6740] - Doc Impact of FLUENCY-6663 HA: add support for simulating split-brain

[FLUENCY-6751] - PARTITION: add support for sparse audit property

[FLUENCY-6819] - RT: Add support for access key data in Managed objects.

[FLUENCY-6842] - Doc Impact of FLUENCY-6751 PARTITION: add support for sparse audit property

[FLUENCY-6916] - ASTPERF: PlatformBase not appropriate for partition change tests

Task

[FLUENCY-4376] - SCHEDULER: deprecate timed scheduler

[FLUENCY-4377] - LOGGER: deprecate logger configuration

[FLUENCY-5139] - DEPLOY: redundant nodecleanup handling

[FLUENCY-5143] - DEPLOY: ktvmadmin::JVM::deployFiles array

[FLUENCY-5168] - 3RDPARTY: Update minimum RedHat version to 5.8

[FLUENCY-5444] - COMPONENTS: package components in product archive

[FLUENCY-5633] - 3RDPARTY: certify on RedHat 6.4

[FLUENCY-5703] - 3RDPARTY: Upgrade Apache version to a 2.2.24

[FLUENCY-5766] - 3RDPARTY: upgrade PHP to 5.4.15

[FLUENCY-5767] - 3RDPARTY: upgrade openssl to 1.0.1e

[FLUENCY-5768] - 3RDPARTY: upgrade openldap to 2.4.35

[FLUENCY-5770] - TIMERS: remove obsolete timer support from core

[FLUENCY-5821] - 3RDPARTY: upgrade universal installer version

[FLUENCY-5833] - Doc Impact of FLUENCY-5444 COMPONENTS: package components in product archive

[FLUENCY-5969] - 3RDPARTY: upgrade to a minimum of MDNS 379.37.

[FLUENCY-5970] - 3RDPARTY: remove JDK 6 from the release

[FLUENCY-5986] - Doc Impact of FLUENCY-5969 3RDPARTY: upgrade to a minimum of MDNS 379.37.

[FLUENCY-5998] - 3RDPARTY: upgrade PHP to 5.4.19

[FLUENCY-5999] - 3RDPARTY: Upgrade Apache version to at least 2.2.25

[FLUENCY-6134] - Doc Impact of FLUENCY-5633 3RDPARTY: certify on RedHat 6.4

[FLUENCY-6175] - 3RDPARTY: Solaris 10 1/13 certification

[FLUENCY-6278] - EVENT: mark event target as private

[FLUENCY-6279] - HISTORY: mark history target as private

[FLUENCY-6282] - CACHE: convert to modeled plugin

[FLUENCY-6284] - DIST: mark distribution target as private

[FLUENCY-6285] - LDAP: rename ldapauth --> ldap

[FLUENCY-6291] - SECURITY: deprecate x.509 support

[FLUENCY-6299] - Doc Impact of FLUENCY-4376 SCHEDULER: deprecate timed scheduler

[FLUENCY-6300] - SCHEDULER: remove deprecated scheduled admin command support

[FLUENCY-6302] - SNAPSHOT: remove display, expand, and remove commands

[FLUENCY-6318] - STATISTICS: remove node statistic

[FLUENCY-6319] - NODE: remove principal information from display node

[FLUENCY-6320] - 3RDPARTY: upgrade to AS 2.0.2 HF9

[FLUENCY-6334] - Doc Impact of FLUENCY-6175 3RDPARTY: Solaris 10 1/13 certification

[FLUENCY-6363] - Doc Impact of FLUENCY-6302 SNAPSHOT: remove display, expand, and remove commands

[FLUENCY-6380] - Doc Impact of FLUENCY-6319 NODE: remove principal information from display node

[FLUENCY-6437] - Doc Impact of FLUENCY-6320 3RDPARTY: upgrade to AS 2.0.2 HF9

[FLUENCY-6455] - 3RDPARTY: upgrade PHP to at least 5.4.25

[FLUENCY-6456] - 3RDPARTY: upgrade OpenSSL to at least 1.0.1f

[FLUENCY-6457] - DOCS: Update to new branding

[FLUENCY-6479] - 3RDPARTY: Upgrade TIBCO Universal Installer version to 3.2.2

[FLUENCY-6500] - CACHE: deprecate com.kabira.platform.CacheManager.CacheFlusher

[FLUENCY-6527] - 3RDPARTY: upgrade Apache to 2.2.26

[FLUENCY-6549] - Doc Impact of FLUENCY-5970 3RDPARTY: remove JDK 6 from the release

[FLUENCY-6601] - 3RDPARTY: upgrade PHP to 5.4.27

[FLUENCY-6612] - 3RDPARTY: upgrade OpenLdap to 2.4.39

[FLUENCY-6614] - 3RDPARTY: upgrade Apache to 2.2.27

[FLUENCY-6615] - Doc Impact of FLUENCY-6500 CACHE: deprecate
com.kabira.platform.CacheManager.CacheFlusher

[FLUENCY-6623] - VMWARE: Deprecate development appliance

[FLUENCY-6626] - 3RDPARTY: upgrade OpenSSL to at least 1.0.1g

[FLUENCY-6627] - 3RDPARTY: Update Java SE 7 to Update 55

[FLUENCY-6628] - 3RDPARTY: upgrade PHP to at least 5.5.11

[FLUENCY-6629] - FLUSHER: renable flush test in distsrv/partitiontest

[FLUENCY-6631] - SWDC: Update to use swsrv binary executable

[FLUENCY-6640] - AST: rename default application from fluency to ast

[FLUENCY-6641] - Doc Impact of FLUENCY-6640 AST: rename default application from fluency to ast

[FLUENCY-6643] - DIST: update removenode distribution command to only update local node

[FLUENCY-6657] - STATISTICS: rename objectcache statistic to namedcache

[FLUENCY-6658] - Doc Impact of FLUENCY-6657 STATISTICS: rename objectcache statistic to
namedcache

[FLUENCY-6713] - CACHE: remove user visibility of default caches

[FLUENCY-6716] - Doc Impact of FLUENCY-6713 CACHE: remove user visibility of default caches

[FLUENCY-6728] - Doc Impact of FLUENCY-6300 SCHEDULER: remove deprecated scheduled admin
command support

[FLUENCY-6746] - Doc Impact of FLUENCY-6627 3RDPARTY: Update Java SE 7 to Update 55

[FLUENCY-6768] - 3RDPARTY: upgrade OpenSSL to at least 1.0.1h

[FLUENCY-6772] - 3RDPARTY: upgrade PHP to at least 5.5.13

[FLUENCY-6775] - Doc Impact of FLUENCY-6772 3RDPARTY: upgrade PHP to at least 5.5.13

[FLUENCY-6789] - 3RDPARTY: upgrade ActiveSpaces to version 2.1.2 HF 14

[FLUENCY-6860] - RT: propagate deadlock reason

[FLUENCY-6873] - 3RDPARTY: Certify and add support for RedHat Linux 6.5

[FLUENCY-6874] - 3RDPARTY: upgrade to TIBCO JRE 7 update 65

[FLUENCY-6884] - Doc Impact of FLUENCY-6873 3RDPARTY: Certify and add support for RedHat Linux 6.5

[FLUENCY-6898] - Doc Impact of FLUENCY-6789 3RDPARTY: upgrade ActiveSpaces to version 2.1.2 HF 14

[FLUENCY-6906] - ASTPERF: add numberOfThreads scaling to HA migration and replica tests

[FLUENCY-6931] - Doc Impact of FLUENCY-6874 3RDPARTY: upgrade to TIBCO JRE 7 update 65

[FLUENCY-6932] - 3RDPARTY: upgrade to JRE 7 build 67

[FLUENCY-6986] - DATAGRID: deprecate the data grid

Known Issues

A summary of the known issues in this release is below.

For each issue the following is provided:

Description of issue

Workaround (if any)

Plans for resolution

Key	Summary	Public Issue Description
FLUENCY-6969	MONITOR: field name tool tips not displayed	The tooltips on fields in the monitor are not displayed correctly. There is no work-around for this issue. This will be corrected in a future release.
FLUENCY-6958	DEPLOY: copytarget=false does not work with a JAR in detached mode	Attempting to deploy a JAR file in detached mode with copytarget=false fails with a message like this: java -jar deploy.jar detach=true copytarget=false app.jar ... java.io.FileNotFoundException: /opt/kabira/run/uepp/nodes/C/classpaths/app_jar0/app.jar (No such file or directory)

		at
		com.kabira.platform.MainWrapper.getMainClassNameFromJar(MainWrapper.java:265)
		at
		com.kabira.platform.MainWrapper.getMainMethod(MainWrapper.java:248)
		at
		com.kabira.platform.MainWrapper.invokeMain(MainWrapper.java:53)
		The work-around is to specify the main class in the deployment command, instead of the JAR file.
FLUENCY-6942	DEPLOY: shared memory allocation failure with large JAR files	Attempting to deploy very large target archives in attached mode will cause shared memory allocation failures on the node.
		The work-around is to use detached mode when deploying very large target archives.
		This issue will be resolved in a future release.
FLUENCY-6937	DEVGUIDE: Incorrect hot deployment description	The instructions in deploying the EAR for hot deployment in Chapter 24 Hot Deployment of the Application Developer's Guide are incorrect. In the Deploy the EAR File that was generated by Web Studio section it states that the newly generated EAR should replace the EAR in the <node_name>/deploy/resources/deploy<timestamp>_ directory. This is incorrect. The EAR should be placed into the <node_name>/classpath/<jvm_name> directory.
		This documentation error will be correct in a future release.
FLUENCY-6882	DIST: JOIN_CLUSTER_PURGE deletes instances even if local node is active node in partition.	Enabling a partition with JOIN_CLUSTER_PURGE with the local node as the active node for both the old and new partition definitions will delete all instances in the partition on the local node, leaving the partition empty. This is usually not what is desired.
		The work-around is to ensure that JOIN_CLUSTER_PURGE is not used when enabling partitions on the active node.
		Future releases may raise an exception when this is attempted, or raise a log message and not remove the objects from the partition.
FLUENCY-	DIST: Enable of	Defining and enable partitions in separate transactions may cause a

6880	partition does not use distributed partition lock protocol.	distributed deadlock. The work-around is to define and enable partitions in the same transaction. This issue will be resolved in a future release.
FLUENCY-6847	HA: leave cluster with asynchronous partitions causes warnings	Leaving a cluster on a node that hosts an asynchronous replica partition may generate spurious warnings in the log files while the leave is executing. For example: DST|WARN |7518|csmarshal.cpp(2004)|Cannot access unknown partition 'Leave Cluster (v541980012961857)' for object type sandbox.highavailability.LeaveCluster$X on node C. or 2014-07-03 16:34:59.445105\|DST\|WARN \|49121\|csmarshal.cpp(1125)\|Invalid object reference '1340264:3534776:489635240020741:64' for type sandbox.highavailability.LeaveCluster$X, operation destroy, event discarded These warnings can be safely ignored - they do not affect the outcome of the leave cluster command. This issue will be resolved in a future release.
FLUENCY-6760	DEPLOY: spaces in jvmname causes deployment failure	Spaces in the jvmname deployment tool parameter cause the deployment to fail with a message like this: INFO: [sandbox.lifecycle.Jvm] started on JVM [Very Important]. Listening for transport dt_socket at address: 28238 Java main class sandbox.lifecycle.Jvm.main exited with an exception. java.lang.RuntimeException: class sandbox.lifecycle.Jvm not found at com.kabira.platform.MainWrapper.getMainMethodFromClass(MainWr

		apper.java:319) at com.kabira.platform.MainWrapper.getMainMethod(MainWrapper.java:251) at com.kabira.platform.MainWrapper.invokeMain(MainWrapper.java:53) INFO: JVM [sandbox.lifecycle.Jvm] exited with status [-1]. The work-around is to not use spaces when specifying a JVM name. This issue will be resolved or audited against in a future release.
FLUENCY-6704	RT: Type verification message can contain bogus fields.	Incorrect type mismatch log messages can be reported for a child of a parent that has added or removed fields. For example: 2014-05-07 14:58:52.208925|DST|WARN |30572|csnode.cpp(3220)|Type mismatch detected for type com.tibco.policyframework.userdata.UserProfile from node MCPCRF1, remote version '-568284671649893289', local version '-568284671649893289', mismatch processing will happen on local node, mismatch reason = 'Mismatch detected for type com.tibco.policyframework.userdata.UserProfile, version '-568284671649893289'. Changed values: Field policy3uk.managed.concepts.userdata.UserProfile::products was added: Field policy3uk.managed.concepts.userdata.UserProfile::defaultProfile was added. These messages can be safely ignored. This will be corrected in a future release.
FLUENCY-6694	MONITOR: offset values not decoded	When monitor decoding is in system or primitive, offset fields are not decoded. The work-around is to use object level decoding.

		This will be resolved in a future release.
FLUENCY-6685	UPGRADE: fails attempting to upgrade model containing custom catalog functions	There is no support for hot-deployment of models that contain custom catalog functions. When attempting to upgrade a model containing custom catalog functions, it will generate an exception like this:

opt/kabira/users/leon/BEX_1.1.2/RUN/A/classpaths/TestDecisionTable_ear0/TestDecisionTable.ear failed!!!

java.lang.reflect.InvocationTargetException

    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

    at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)

    at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)

    at java.lang.reflect.Method.invoke(Unknown Source)

    at com.tibco.cep.runtime.service.loader.ClassManager.redefineClasses(ClassManager.java:410)

    at com.tibco.cep.runtime.service.loader.ClassManager.commitChanges(ClassManager.java:322)

    at com.tibco.cep.runtime.service.loader.BEClassLoader.update(BEClassLoader.java:311)

    at com.tibco.cep.runtime.service.loader.BEClassLoader.lockAndUpdate(BEClassLoader.java:275)

    at com.tibco.cep.runtime.service.loader.BEClassLoader.lockAndUpdate(BEClassLoader.java:281)

    at com.tibco.cep.runtime.service.loader.BEClassLoader.lockAndUpdate(BEClassLoader.java:270)

		at com.tibco.cep.runtime.session.impl.RuleServiceProviderImpl.notify(RuleServiceProviderImpl.java:1530) at com.tibco.cep.repo.hotdeploy.DirectoryDeployer.poll(DirectoryDeployer.java:88) at com.tibco.cep.repo.hotdeploy.DirectoryDeployer.run(DirectoryDeployer.java:48) at java.lang.Thread.run(Unknown Source) Caused by: java.lang.UnsupportedOperationException: class redefinition failed: attempted to delete a method at sun.instrument.InstrumentationImpl.redefineClasses0(Native Method) at sun.instrument.InstrumentationImpl.redefineClasses(Unknown Source) ... 14 more There is no work-around for this issue. This may be resolved in a future release.
FLUENCY-6666	DEPLOY: NullPointerException deploying to stopped node	Attempting to deploy an application to a stopped node causes a null pointer exception similar to this: Exception in thread "main" java.lang.NullPointerException at com.kabira.platform.management.Client.sendMessage(Client.java:185) at com.kabira.platform.management.Client.sendPluginRequest(Client.java:422) at com.kabira.platform.management.AdminClient.pollForOutput(AdminClient.java:356)

		at com.kabira.platform.management.AdminClient.waitForCompletion(AdminClient.java:451)
		
		    at com.kabira.platform.management.AdminClient.runApplication(AdminClient.java:824)
		
		    at com.kabira.platform.management.AdminClient.deployApplication(AdminClient.java:1118)
		
		    at com.kabira.platform.management.AdminClient.doIt(AdminClient.java:933)
		
		    at com.kabira.platform.management.AdminClient.main(AdminClient.java:1256)
		
		This exception can be safely ignored.
		
		This will be resolved in a future release.

FLUENCY-6652	QUERY: add support for query scope in generated query catalog functions	The generated query catalog functions only support local queries. Use a custom catalog function and Java code to perform a distributed query. This limitation in the generated query catalog functions will be removed in a future release.
FLUENCY-6599	DEPLOY: symbolic link to EAR target causes assertion	Attempting to deploy an application archive that uses a symbolic link to a different directory fails with this exception: Muir-Beach >> java -jar deploy.jar reset=false Stress.ear descriptor=Stress.cdd INFO: Deployment Tool (deploy.jar) version: [TIBCO BusinessEvents(R) Extreme 1.2.0 (build 140322)] starting at [Fri Mar 28 12:36:21 PDT 2014] INFO: JVM remote debugger agent running on [kabira-server.local:23886] ...

		INFO: Node version: [TIBCO BusinessEvents(R) Extreme 1.2.0 (build 140322)]
		INFO: Starting [Stress.ear] ...
		INFO: [Stress.ear] started on JVM [Stress_ear14].
		Listening for transport dt_socket at address: 23886
		FATAL: Remote request thread failed for JVM [Stress_ear14]: RequestThread unexepected parseResponse: <error>
		<code>49</code>
		<message>A [DSEBuiltin::ExceptionResourceUnavailable: 'java.lang.AssertionError
		at com.kabira.platform.ktvmnotifier.RequestWaiter$CompletionNotifier.$getDirectoryImpl(RequestWaiter.java:97)
		at com.kabira.platform.ktvmnotifier.RequestWaiter$CompletionNotifier.getDirectory(RequestWaiter.java)
		at com.kabira.platform.ktvmnotifier.RequestWaiter$CompletionNotifier.$getPathImpl(RequestWaiter.java:88)
		at com.kabira.platform.ktvmnotifier.RequestWaiter$CompletionNotifier.getPath(RequestWaiter.java)
		at com.kabira.platform.ktvmnotifier.RequestWaiter$CompletionNotifier.$requestCompleteImpl(RequestWaiter.java:55)
		at com.kabira.platform.ktvmnotifier.RequestWaiter$CompletionNotifier.requestComplete(RequestWaiter.java)
		The work-around is to not use symbolic links to different directories.
		This will be resolved in a future release.
FLUENCY-	CONFIG: export	If a configuration class contains a field that is an array of managed

6524	configuration does not decode array of managed objects	objects then the configuration file exported using export configuration contains object references for the array elements instead of the fully decoded elements. There is no work-around for this issue. This will be corrected in a future release.
FLUENCY-6409	CONFIG: Auto-loading of configuration should ignore files with unknown suffixes	During node startup, auto-loading of configuration files occurs, which loads all configuration files in the node auto-load configuration directories. Currently this process attempts to load all files as configuration files, regardless of their suffix. This can cause node startup failures. The work-around is to ensure that only kcs files are in the configuration auto-load directories. This issue will be resolved in a future release.
FLUENCY-6332	QUERY: lock mode of none takes read lock	Specifying a lock mode of none to the query catalog functions takes a read lock on the returned object. For example thsi query Employee.lookupEmployee_ByEmpId("none","1234"); will read-lock the returned *Employee*object. There is no work-around for this issue. This will be corrected in a future release.
FLUENCY-6273	CLASSLOADER: DataError with anonymous class implementation as distributed POJO method param.	Using an anonymous class as a parameter to a distributed method call will fail with an exception like this: A] com.kabira.platform.DataError: Error packing serialized data. [A] at com.kabira.platform.Any.serializeObject(Any.java:231) [A] at com.kabira.platform.AnyBuffer.writeSerializableStream(AnyBuffer.java:381) [A] at com.kabira.platform.AnyBuffer.writeObject(AnyBuffer.java:319) [A] at com.kabira.platform.AnyBuffer.writeJavaObject(AnyBuffer.java:337)

		[A] at anontest.AnonTest$Target.invokeCommand(AnonTest.java)
		[A] at anontest.AnonTest$2.run(AnonTest.java:69)
		[A] at com.kabira.platform.Transaction.execute(Transaction.java:457)
		[A] at com.kabira.platform.Transaction.execute(Transaction.java:510)
		[A] at anontest.AnonTest.runTest(AnonTest.java:58)
		[A] at anontest.AnonTest.main(AnonTest.java:26)
		[A] at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
		[A] at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
		[A] at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
		[A] at java.lang.reflect.Method.invoke(Unknown Source)
		[A] at com.kabira.platform.MainWrapper.invokeMain(MainWrapper.java:65)
		[A] Caused by: java.io.NotSerializableException: anontest.AnonTest$2
		[A] at java.io.ObjectOutputStream.writeObject0(Unknown Source)
		[A] at java.io.ObjectOutputStream.defaultWriteFields(Unknown Source)
		[A] at java.io.ObjectOutputStream.writeSerialData(Unknown Source)
		[A] at java.io.ObjectOutputStream.writeOrdinaryObject(Unknown Source)
		[A] at java.io.ObjectOutputStream.writeObject0(Unknown Source)
		[A] at java.io.ObjectOutputStream.writeObject(Unknown Source)
		[A] at com.kabira.platform.Any.serializeObject(Any.java:227)
		The work-around for this issue is to use a concrete class instead.
		This will be corrected in a future release.
FLUENCY-	QUERY: lookup	Attempting to lookup a concept that was created in the same RTC will

6218	of a concept created in same RTC fails	fail. For example:
| | | ```
rule Rules.Work {

    attribute {

        priority = 5;

        forwardChain = true;

    }

    declare {

        Events.DoIt doIt;

    }

    when {


    }

    then {

        Concepts.Value value = Concepts.Value.Value("", "SameRtc");


        value = Value.lookupByName("none", "SameRtc"); // FIX THIS -: Will return null

        System.debugOut("INFO: Work Value is " + value);

    }

}
``` |
		The work-around is to call a catalog function with the newly created concept as a parameter to force the concept to be created in shared memory.
		This issue will be resolved in a future release.
FLUENCY-	DIST: Loading StaticDiscovery	Attempting to load a static discovery distribution configuration that includes the local node causes a node failure. In development builds

6141	entries with self included crashes node.	this assertion failure is seen: csnode.cpp:2104: failed C++ assertion 'm_nodeState == NodeDiscovered || m_nodeState == NodeNotifyUp || m_nodeState == NodeNotifyDown || m_nodeState == NodeUp || m_nodeState == NodeDown' There is no work-around for this issue. This will be corrected in a future release, either by reporting the incorrect configuration at audit time, or by supporting this configuration.
FLUENCY-5701	JAVASERVICE: shutting down at debugger breakpoint causes engine to fail with an error	Stopping a JVM with a breakpoint set in the debugger will cause the JVM to exit with an error that requires the node to be removed and re-installed. The work-around is to ensure that no break-points are set in a debugger when shutting down a JVM. This issue will be resolved in a future release.
FLUENCY-5688	JAVASERVICE: jniutils.cpp:138: failed C++ assertion 'env->ExceptionCheck() == JNI_FALSE'	A fatal exception like the following can be seen when using the debugger to examine fields in a managed object following an exception. WARNING in native method: JNI call made with exception pending WARNING in native method: JNI call made with exception pending WARNING in native method: JNI call made with exception pending WARNING in native method: JNI call made with exception pending WARNING in native method: JNI call made with exception pending WARNING in native method: JNI call made with exception pending WARNING in native method: JNI call made with exception pending WARNING in native method: JNI call made with exception pending

WARNING in native method: JNI call made with exception pending

WARNING in native method: JNI call made with exception pending

WARNING in native method: JNI call made with exception pending

jniutils.cpp:138: failed C++ assertion 'env->ExceptionCheck() == JNI_FALSE'

utl_dump_stack: Start of stack trace for pid 9742, tid 9832

 #0 /opt/kabira/kis/distrib/kabira/devlib/libutils_g.so:utl_dump_stack

 #1 /opt/kabira/kis/distrib/kabira/devlib/libsyssrv_g.so:dse_bomb(char const*, char const*, int, DSEBombType)

 #2 /opt/kabira/kis/distrib/kabira/devlib/libjavaservice_g.so:JNIUtil::attachProxyObject(JNIEnv_*, _jobject*, _jfieldID*)

 #3 /opt/kabira/kis/distrib/kabira/devlib/libjavaservice_g.so:JNIUtil::getSlotData(JNIEnv_*, _jobject*, _jfieldID*)

 #4 /opt/kabira/kis/distrib/kabira/devlib/libjavaservice_g.so:KTVM_GetByteField

 #5 /opt/kabira/distrib/kis/3rdparty/linux/tibcojre/1.7.0_09_x86_64/lib/amd64/libjdwp.so [0x7f7018ae2739]

 #6 /opt/kabira/distrib/kis/3rdparty/linux/tibcojre/1.7.0_09_x86_64/lib/amd64/libjdwp.so [0x7f7018abe0ab]

 #7 /opt/kabira/distrib/kis/3rdparty/linux/tibcojre/1.7.0_09_x86_64/lib/amd64/libjdwp.so [0x7f7018ac9806]

 #8 /opt/kabira/distrib/kis/3rdparty/linux/tibcojre/1.7.0_09_x86_64/lib/amd64/libjdwp.so [0x7f7018adc3c1]

 #9 /opt/kabira/kis/3rdparty/linux/tibcojre/1.7.0_09_x86_64/lib/amd64/se

		rver/libjvm.so [0x7f7042849ae7]
		#10 /opt/kabira/kis/3rdparty/linux/tibcojre/1.7.0_09_x86_64/lib/amd64/server/libjvm.so [0x7f7042a880c8]
		#11 /opt/kabira/kis/3rdparty/linux/tibcojre/1.7.0_09_x86_64/lib/amd64/server/libjvm.so [0x7f7042a88218]
		#12 /opt/kabira/kis/3rdparty/linux/tibcojre/1.7.0_09_x86_64/lib/amd64/server/libjvm.so [0x7f7042969c00]
		#13 /lib/libpthread.so.0 [0x7f70452693f7]
		#14 /lib/libc.so.6:clone
		WARNING in native method: JNI call made with exception pending
		This is caused by a limitation in the debugger integration with JNI.
		There is no workaround to this issue.
		This issue may be resolved in a future release.
FLUENCY-5615	FLUSH: improve handling of one-way methods on cache never objects	Oneways queued to cache never objects will be discarded at commit time. This behavior may be changed in a future release.
FLUENCY-5593	CLASSLOADER: methods inherited from non-managed base classes not distributed	Methods inherited from non-managed types are not correctly invoked on remote nodes if it is a distributed object. The work-around is to override all of the parent types methods and just invoke them via super in the child type. This may be resolved in a future release.
FLUENCY-5461	USAGE: help for scripted plugins not displayed	The help command on the snapshot and runtimestatistics administration targets does not work with the domainname parameter. For example:

		administrator adminport=N domainname=Development help snapshot There is no work-around for this issue. This will be corrected in a future release.

FLUENCY-5447	JAVASERVICE: Crash when using "ragged" multi-dimensional arrays.	Java supports multi-dimensional arrays where each dimension has different
		sized arrays:
		
		raggedArray = new byte[2][];
		
		raggedArray[0] = new byte[2];
		
		raggedArray[1] = new byte[8];
		
		However, this will fail at runtime with an exception like this:
		
		FATAL ERROR in native method: Non-array passed to JNI array operations
		
		    at com.kabira.platform.ManagedObject.setReference(Native Method)
		
		    at MyArray.$_init_Impl(Demo.java:14)
		
		    at MyArray.<init>(Demo.java:13)
		
		    at Demo$1.run(Demo.java:67)
		
		    at com.kabira.platform.Transaction.execute(Transaction.java:457)
		
		    at com.kabira.platform.Transaction.execute(Transaction.java:510)
		
		    at Demo.main(Demo.java:63)
		
		    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
		
		    at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
		
		    at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)

		at java.lang.reflect.Method.invoke(Unknown Source)
		at com.kabira.platform.MainWrapper.invokeMain(MainWrapper.java:65)
		Node vash failed: Engine x::x with process exit status (6) triggered abort of node. Node must be reinstalled.
		The work-around is to only use multi-dimensional arrays with the same dimensions.
		This will be resolved in a future release.
FLUENCY-5400	HA: timer started in notifier constructor not replicated	HA timers started in the constructor of a partitioned class which extends com.kabira.platform.swtimer.TimerNotifier, is not properly replicated, and becomes lost upon fail over.
		The work-around is to create the timer notifiers outside of a constructor.
		This will be resolved in a future release.
FLUENCY-5287	QUERY: update in RTC lost if concepts reloaded via a query	Updates to a concept in an RTC are lost if the concept is reloaded via a query in the same RTC.
		The work-around is to flush the concept updates to shared memory by calling a catalog function with the concept as a parameter before doing the query.
		This may be corrected in a future release. However, it is recommended that applications do not load a concept into working memory multiple times in an RTC to avoid the performance impact of loading a concept into working memory.
FLUENCY-5137	DEPLOY: application parameters with embedded double quote mishandled	Application parameters with escaped double quotes do not get passed properly to the application. Examples:
		java -jar deploy.jar MyMain \"param2\"
		java -jar deploy.jar MyMain param1 "this is \"param2\""
		There is no work-around to this issue.

		This may be resolved in a future release.
FLUENCY-5013	DATAGRID: Exception com.tibco.as.space.ASException: INVALID_OBJECT (metaspace_invalid) during jvm termination.	Intermittent data grid errors are seen when shutting down a node. They look something like:

2012-09-14 15:14:31.567 [shutdown-hook-job] INFO   runtime.cluster.om.daoprovider - Disconnecting from metaspace

2012-09-14 15:14:32.050 [y3uk-policy3uk.0.$smtimeouts.CachePoller] DEBUG   runtime.service - CACHEPOLLER : policy3uk-policy3uk.0.$smtimeouts.CachePoller, Polling... 0, <= 1347632072050

2012-09-14 15:14:32.074 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR   root - java.lang.RuntimeException: com.tibco.as.space.ASException: INVALID_OBJECT (metaspace_invalid)

2012-09-14 15:14:32.074 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR   root -   at com.tibco.cep.runtime.service.rmi.RemoteFilterRunner.invoke(SourceFile:116)

2012-09-14 15:14:32.074 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR   root -   at com.tibco.cep.runtime.service.rmi.RemoteFilterRunner.entrySet(SourceFile:46)

2012-09-14 15:14:32.074 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR   root -   at com.tibco.cep.runtime.service.dao.impl.tibas.ASControlDao.entrySet(SourceFile:481)

2012-09-14 15:14:32.074 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR   root -   at com.tibco.cep.runtime.service.cluster.scheduler.impl.DefaultCachePoller.getExpiredKeys(DefaultCachePoller.java:111)

2012-09-14 15:14:32.074 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR   root -   at com.tibco.cep.runtime.service.cluster.scheduler.impl.DefaultCachePoller.run(DefaultCachePoller.java:82)

2012-09-14 15:14:32.074 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR   root -   at

com.tibco.cep.runtime.session.BEManagedThread.execute(BEManaged
Thread.java:458)

2012-09-14 15:14:32.089 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at
com.tibco.cep.runtime.session.BEManagedThread.run_repeating(BEMa
nagedThread.java:436)

2012-09-14 15:14:32.089 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at
com.tibco.cep.runtime.session.BEManagedThread.run(BEManagedThre
ad.java:299)

2012-09-14 15:14:32.090 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root - Caused by:
com.tibco.as.space.ASException: INVALID_OBJECT (metaspace_invalid)

2012-09-14 15:14:32.090 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at
Native.API_Space_InvokeMembers(ApiSpace.cpp:481)

2012-09-14 15:14:32.090 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at
Native.Java_com_tibco_as_space_impl_NativeImpl_spaceInvokeMemb
ers(JRemoteService.cpp:62)

2012-09-14 15:14:32.090 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at
com.tibco.as.space.impl.NativeImpl.spaceInvokeMembers(Native
Method)

2012-09-14 15:14:32.090 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at
com.tibco.as.space.impl.ASSpace.invokeAll(ASSpace.java:776)

2012-09-14 15:14:32.090 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at
com.tibco.as.space.impl.ASSpace.invokeSeeders(ASSpace.java:740)

2012-09-14 15:14:32.090 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at
com.tibco.as.space.impl.ASSpace.invokeSeeders(ASSpace.java:734)

2012-09-14 15:14:32.094 [y3uk-policy3uk.0.$smtimeouts.CachePoller]
ERROR   root -   at

		com.tibco.cep.as.kit.rmi.InvocationHelper.buildAndInvoke(SourceFile:140)
		2012-09-14 15:14:32.094 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR root - at com.tibco.cep.runtime.service.rmi.RemoteFilterRunner.invoke(SourceFile:111)
		2012-09-14 15:14:32.097 [y3uk-policy3uk.0.$smtimeouts.CachePoller] ERROR root - ... 7 more
		2012-09-14 15:14:32.317 [shutdown-hook-job] INFO runtime.cluster.om.daoprovider - Disconnected from metaspace
		These errors can be ignored.
		This will be corrected in a future release.
FLUENCY-4813	JDWP: Setting a field in a Managed object without an active transaction results in 'Unexpected JDWP Error: 115'	Setting a field in a managed object without an active transaction in a Java debugger causes errors.
		For example, if mo is managed object, doing the following in a debugger:
		set mo.m_id = 456
		causes these errors to be reported.
		main[1] com.sun.jdi.InternalException: Unexpected JDWP Error: 115
		mo.m_id = 456 = null
		main[1] WARNING in native method: JNI call made with exception pending
		WARNING in native method: JNI call made with exception pending
		WARNING in native method: JNI call made with exception pending
		...
		There is no work-around for this issue.

		This may be resolved in a future release.
FLUENCY-4714	DEPLOY: Error when overriding global variable on the command-line.	There is currently no documented support for overriding global variables on the command line. The work-around is to use a properties file to set the global variable, and specify the properties file on the deployment command-line like so: java -jar deploy.jar servicename=abc P.ear descriptor=P.cdd -p <properties file> Support for this feature will be added in a future release. The final support may change the command syntax used in the work-around described above.,
FLUENCY-4569	ASTA: The BE-X administrator is not rebranded	The BE-X Administrator was not rebranded. It still references ActiveSpaces Transactions. This will be corrected in a future release.

FLUENCY-4537	CLASSLOADER: autoboxing and valueof ClassCastException	Using valueOf to update an item in an array of Long in a Managed Object fails with a ClassCastException. For example, this snippet fails with:
		
		java.lang.ClassCastException: [J cannot be cast to [Ljava.lang.Long;
		
		import com.kabira.platform.Transaction;
		
		import com.kabira.platform.annotation.Managed;
		
		public class Bug
		
		{
		
		  public static void main(String[] args)
		
		  {
		
		    new Transaction()
		
		    {

```
    public void run()

    {

        Unhappy clown = new Unhappy();

        System.out.println(clown.longs[0]);

    }

  }.execute();

}

@Managed

static class Unhappy

{

    Long longs[] = new Long[1];

    Unhappy()

    {

        longs[0] = Long.valueOf(42);

    }

}
```

There is no work-around for this issue.

This will be resolved in a future release.

FLUENCY-4489	MONITOR: Cannot display multi-dimensional arrays.	The shared memory monitor does not handle java arrays with multiple dimensions, i.e. running the following example:
		import com.kabira.platform.Transaction;
		import com.kabira.platform.annotation.Managed;
		@Managed
		class Foo

```java
{
  public char[][] m_char;

  Foo()
  {
    m_char = new char[5][5];
    char val = 'a';
    for (int i = 0; i < 5; i++)
    {
      for (int j = 0; j < 5; j++)
      {
        m_char[i][j] = val;
        val++;
      }
    }
  }
}
public class Demo
{
  public static void main(String[] args)
  {
    new Transaction("Create")
    {
      public void run()
      {
        new Foo();
```

```
        }

      }.execute();

      System.out.println("Main: done");

    }

}
```

Then running the monitor and navigating to the foo instance will result in a
Address out of bounds error displayed for m_char.

A workaround is to use swdiag to display the object data.

This will be corrected in a future release.

FLUENCY-4474	RT: Creating key'd instances via reflection fails.	Attempting to create a managed object with keys defined using reflection fails with a duplicate key exception. There is no work-around for this issue. This will be resolved in a future release.
FLUENCY-3956	ASTA: reset/delete buttons handled incorrectly following drag & drop	Changing the order of items in dialog boxes that support drag & drop does not managed the reset and delete button states correctly. The reset button is not enabled, and in some cases the delete button is incorrectly enabled. The work-around is to close and re-open the dialog. This issue will be resolved in a future release.
FLUENCY-3859	STATISTICS: object update latency does not include partitioned objects	The object update latency reported for distributed and partitioned objects does not include the network latency. There is no work-around for this issue. This will be corrected in a future release.
FLUENCY-3757	ASTA: Channel.Security. Error starting monitors	The performance monitors in the administrator report a Channel.Security.Error when accessed by a client in a different domain than the node is running.

		There is no work-around for this issue.
		This wil be resolved in a future release.
FLUENCY-3678	DATAGRID: Crash during JProfiler startup	Attaching JProfiler 6.2.4 to a running AST JVM caused a SEGV crash due to a library symbol conflict between JProfiler and DataGrid.
		There is no work-around for this issue.
		A future release of JProfiler (version 6.2.5) will contain a fix for this issue.
FLUENCY-3436	DATAGRID: spurious output to stdout	Certain log messages from the data grid library will display to the console, and cannot be disabled. The "member left:", "ip_address:", and "Connected metaspace ..." messages should be ignored. This will be corrected in a future release.
FLUENCY-3408	ASTA: numeric and data columns in tables not sorted correctly	Tables displaying numeric and date data are not sorted correctly. They are currently sorted in character sort order.
		There is no work around for this issue.
		This will be resolved in a future release.
FLUENCY-3382	ASTA: support multi-master merge	There is no support for resolving a multi-master scenario from ActiveSpaces® Transactions Administrator.
		The work-around is to use the administrator command line.
		This issue will be resolved in a future release.
FLUENCY-3293	DATAGRID: class load for key restore requires a transaction	If the class-load action for a keyed, grid-backed type occurs outside any transaction context, and there are instances of the type to be restored from the data grid, a java.lang.NoClassDefFoundError may be thrown.
		This occurs as AST will automatically restore any instances of keyed types that are found in the data grid. Currently, this restore action requires a transaction. This restriction will be removed in a future release.
FLUENCY-3225	DATAGRID: cardinality for flushable types updated at	Cardinality for data grid backed managed objects that are not always cached in shared memory does not include any objects created in the current transaction - it only returns the cardinality for completed transactions.

	prepare time	There is no work-around for this inconsistency with non-data grid backed managed objects. This will be resolved in a future release.
FLUENCY-3181	DATAGRID: invalid query not failing	When running a query against a space, certain illegal query filters will not fail as expected. Specifically, a query filter that consists of a single token will find zero elements, rather than returning an error. An example of a such a filter would be query space name=foo filter=abc. There is no work-around for this issue. This will be resolved in a future release.
FLUENCY-3073	KDM: configuration restore: incorrect date conversion when timezone offsets of -00xx	The Domain Manager's configuration cache incorrectly converts negative timezone offsets in a node's installation time to a positive offset. For example a node installation timezone offset of -0030 is converted to 0030. This may cause configuration restore to incorrectly restore, or not, configuration to a node. There is no work-around for this issue. This will be corrected in a future release.
FLUENCY-2855	KDM: cannot remove switch using domain manager	It is not possible to remove a node using the domain manager. Attempt to do so will fail with the following error message: switchadmin servicename=domainmanager domainnode=replica stop switch guest@kabira-server:~$ switchadmin servicename=domainmanager domainnode=replica stop remove Invalid response data stream received from remote node. The work around is to execute the remove directly to the target node without the domain manager. This will be resolved in a future release.
FLUENCY-2509	JAVASERVICE: JVM fails to start if given the -	The -showversion JVM option will cause the Fluency JVM to fail during startup.

	showversion JVM option	There is no work-around for this issue. This will be corrected in a future release.
FLUENCY-2491	NODE: display node does not show node description if MDNS not running	switchadmin display switch and Kabira Manager do not include the node description if service discovery is not running. With MDNS running here is the output from display switch. switchadmin adminport=2001 display switch Node administration for primary: Host: localhost Administration Port: 2001 Service Name: "primary" Node Name: "primary" Engine fluency::fluency State: running Build type: DEVELOPMENT Contains JVM: No Principals: guest Active Principal: guest Application: kabira/fluency Node Path: /opt/kabira/run/fluency/nodes/primary Installation Path: /opt/kabira/kis Node Description: Fluency Development Here is the output without MDNS running. switchadmin adminport=2001 display switch

		Node administration for primary:
		Host: localhost
		Administration Port: 2001
		Service Name: "None"
		Node Name: "primary"
		Engine fluency::fluency
		State: running
		Build type: DEVELOPMENT
		Contains JVM: No
		Principals: guest
		Active Principal: guest
		Application: kabira/fluency
		Node Path: /opt/kabira/run/fluency/nodes/primary
		Installation Path: /opt/kabira/kis
		There is not work-around for this issue.
		This will be corrected in a future release.
FLUENCY-2482	ADMINISTRATION: no error message reported if MDNS disabled	If the MDNS daemon is disabled, no error message is displayed to the user when using servicename with administrator. administrator just returns a non-zero error code. For example: administrator servicename=xxxx display node echo $? 1 An error message will be returned in a future release.
FLUENCY-2446	JAVASE: JDWP can hang during	A Java debugger can hang if the wrong transaction is chosen by the JDWP library when changing threads while single stepping through a

| | stepping in debugger | method in a transaction. When the wrong transaction is selected, the debugger will hang on the next single step.

The work-around is to not switch threads while single stepping through a method in a transaction.

This will be resolved in a future release. |
|---|---|---|
| FLUENCY-2426 | KDM: cannot start node through KDM | Attempting to start a node through KDM will fail. For example, executing this command:

switchadmin hostname=kabira-server adminport=2000 domainnode=replica username=guest password=guest start switch

will fail with:

Invalid response data stream received from remote node.

The work around is to send the command directly to the node being started, by passing KDM. For example:

switchadmin hostname=kabira-server adminport=2003 username=guest password=guest start switch

    Waiting for application to start

    Components started

    Loading configurations

    Auditing security configuration

    Host: kabira-server

    Administration Port: 2003

    Service Name: "replica"

    Node Name: "replica"

This will be resolved in a future release. |

FLUENCY-1925	JAVASERVICE: invalid JVM options causes node to crash	Invalid JVM options causes the node to crash. For example (note duplicate -Xms options):
		2010-01-21 13:21:08.162242|KVM|INFO |31637|ktvmmgr.cpp(1655)|Creating a JVM
		VM options:
		- Dcom.kabira.application.class.path=/opt/kabira/run/fluency/nodes/primary/classpaths/snippets_jar3
		-Xms256m
		-Xms512m - agentlib:jdwp=transport=dt_socket,address=63315,server=y,suspend=n
		-Dcom.kabira.application.detach=true
		- Djava.system.class.loader=com.kabira.platform.classloader.ClassLoader
		-Dcom.kabira.platform.buildType=DEVELOPMENT
		-Dcom.kabira.platform.management.port=2001
		,,.
		2010-01-21 13:21:08.199367|KVM|INFO |31637|notifiers.cpp(130)|installNotifiers called with VMID 31621
		2010-01-21 13:21:08.236792|USR|FATAL|31637|engine.cpp(74)|An illegal call to exit() was detected in process 31621 with active engine instances. You must use the stop() method in swbuiltin to terminate engines.
		This will be handled more gracefully in future releases.
FLUENCY-1922	JAVASERVICE: iterative JVM start/stop memory leak	There is a shared memory leak of approximately 200 kilobytes, seen when JVMs are launched, stopped and then left stopped. Some of this leak also remains even after the JVM is removed.
		This is only an issue in the development process where many JVMs are deployed (one for each launch of the application from the deploy tool).

		This will be resolved in a future release.

FLUENCY-1129	CLASSLOADER: inherited fields used in keys are not audited for "final"	An inherited field used in a Java key will not be audited for "final"-ness.
		
		For instance, the following should not be legal:
		
		public class A {
		
		    int i;
		
		}
		
		@Managed
		
		@Key(name ="test", fields = {"i"})
		
		public class B extends A { }

FLUENCY-619	ASTA: domain manager node running ASTA can be stopped/removed	It is possible to stop/remove the Domain Manager node that runs the ActiveSpaces® Transactions Administrator. If this happens the web client becomes non-responsive. The Domain Manager node should not be stopped using ActiveSpaces® Transactions Administrator. The workaround is to restart the Domain Manager node if this happens. Stopping the Domain Manager node using ActiveSpaces® Transactions Administrator will be prevented in a future release.

FLUENCY-544	CLASSLOADER: can't store a null reference in a Java enum array	Arrays of enums stored in a ManagedObject store a null as the first value in the enum declaration.
		
		For example, the following assert will fail.
		
		enum Relic { BELL, BOOK, CANDLE };
		
		class Holder extends ManagedObject
		
		{
		
		    Relic[] m_relic;
		
		    void foo()

		``
{
    m_relic = new Relic[10];
    assert(m_relic[0] == null);
    // m_relic[0] is actually set to BELL
    }
}
```
This problem will be corrected in a future release. |
| FLUENCY-542 | CLASSLOADER: can't store a null reference in a Java String array | Arrays of strings in a ManagedObject store a null as an empty string.<br><br>For example, the following assert will fail.<br><br>```
public class StringHolder extends ManagedObject
{
    String[] m_string;
    void foo()
    {
        m_string = new String[10];
        assert( m_string[0] == null );
        //
        // m_string[0] will return a valid string of length 0
        //
    }
}
```
This problem will be corrected in a future release. |
| FLUENCY-287 | ASTA: Browser refresh logs you | Using ActiveSpaces® Transactions Administrator with any browser, when you reload the current page by any means (for example, clicking on the browser's "Reload" button, or pressing ctrl-R), ActiveSpaces® |

	out	Transactions Administrator logs you out of all nodes and returns you to the original login screen.

This issue will be fixed in a future release. |
| FLUENCY-271 | ASTA: apache processes not stopped when remove switch used | Stopping a domain manager node using switchadmin remove switch does not stop the Apache server processes.

The work-around is to use switchadmin stop switch before switchadmin remove switch, or to manually kill the Apache server processes.

This will be resolved in a future release. |
| FLUENCY-84 | JAVASERVICE: Invalid com.sun.management.jmxremote. port number crashes node | An invalid value to a system property when starting jconsole, for example:

Error: Invalid com.sun.management.jmxremote.port number: 192.168.71.128:9876

Brings down the Fluency node with this message:

2008-10-09 14:36:49.629085|KVM|INFO |10069|ktvmmgr.cpp(1241)|Creating a JVM

VM options:

    -Dcom.sun.management.jmxremote.port=192.168.71.128:9876

    -Dcom.sun.management.jmxremote.authenticate=false

    -agentlib:jdwp=transport=dt_socket,address=16106,server=y,suspend=n

    -Djava.system.class.loader=com.kabira.platform.classloader.ClassLoader

    -Dkabira.engine.buildType=PRODUCTION

Class path:

    /opt/kabira/kis/distrib/kabira/component/ktvm/java/ktvm.jar

    /opt/kabira/kis/3rdparty/generic/bcel/5.2/bcel-5.2.jar |

/opt/kabira/run/fluency-dev/nodes/primary/classpaths/scratch_Main5

java/swbuiltin.jar

java/kis.jar

java/appstats.jar

java/event.jar

java/scheduler.jar

java/switchadmin.jar

java/logger.jar

java/diskmonitor.jar

java/ktvmadmin.jar

java/netchannel.jar

java/ha.jar

java/kdds.jar

java/ktvmnotifier.jar

Initial load classes:

com.kabira.platform.ktvmnotifier.RequestWaiter

2008-10-09 14:36:49.642968|KVM|INFO |10069|notifiers.cpp(43)|installNotifiers called with VMID 10069

2008-10-09 14:36:50.526578|USR|FATAL|10088|engine.cpp(73)|An illegal call to exit() was detected in process 10069 with active engine instances. You must use the stop() method in swbuiltin to terminate engines.

This error will be handled without bringing the node down in a future release.

| FLUENCY-63 | DEPLOY: client fails to resolve services on | fluency.jar fails to resolve Fluency node services running on the server appliance hosted on Mac OS X. |
| | | The work-around is to use host names and port numbers instead of |

	macosx	service names.
		This will be resolved in a future release.
FLUENCY-7	CLASSLOADER: java.lang.IllegalStateException: recursive invocation	Attempting to integrate the NetBeans profiler with Fluency causes this fatal exception:
		[primary] Profiler Agent: Initializing...
		[primary] Profiler Agent: Options: >/opt/kabira/run/fluency-dev/deploy/profiler-server-linuxamd64/lib,5140<
		[primary] Profiler Agent: Initialized succesfully
		[primary] Error occurred during initialization of VM
		[primary] java.lang.IllegalStateException: recursive invocation
		[primary] at java.lang.ClassLoader.initSystemClassLoader(ClassLoader.java:1303)
		[primary] at java.lang.ClassLoader.getSystemClassLoader(ClassLoader.java:1286)
		[primary] at java.lang.ClassLoader.defineClass1(Native Method)
		[primary] at java.lang.ClassLoader.defineClass(ClassLoader.java:620)
		[primary] at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:124)
		[primary] at java.net.URLClassLoader.defineClass(URLClassLoader.java:260)
		[primary] at java.net.URLClassLoader.access$000(URLClassLoader.java:56)
		[primary] at java.net.URLClassLoader$1.run(URLClassLoader.java:195)
		[primary] at java.security.AccessController.doPrivileged(Native Method)
		[primary] at

java.net.URLClassLoader.findClass(URLClassLoader.java:188)

[primary]	at java.lang.ClassLoader.loadClass(ClassLoader.java:306)

[primary]	at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:276)

[primary]	at java.lang.ClassLoader.loadClass(ClassLoader.java:251)

[primary]	at java.lang.ClassLoader.loadClassInternal(ClassLoader.java:319)

[primary]	at java.lang.Class.forName0(Native Method)

[primary]	at java.lang.Class.forName(Class.java:247)

[primary]	at java.lang.SystemClassLoaderAction.run(ClassLoader.java:2015)

[primary]	at java.security.AccessController.doPrivileged(Native Method)

[primary]	at java.lang.ClassLoader.initSystemClassLoader(ClassLoader.java:1311)

[primary]	at java.lang.ClassLoader.getSystemClassLoader(ClassLoader.java:1286)

[primary]

[primary] Current thread is 139832737576688

[primary] Dumping core ...

[primary] Caught fatal signal 6 (Aborted)

[primary] utl_dump_stack: Start of stack trace for pid 10825

There is no work-around for this failure.

This issue appears to be a NetBeans profiler issue.